ENGINEERING NEWS-RECORD

ers bridge Roer River at Duren beside wreckage of famous German triangular truss span.

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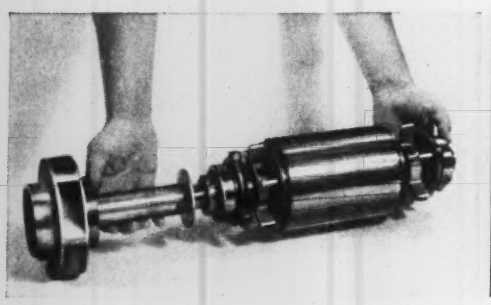
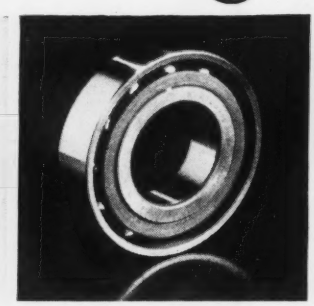
[PUMP TIPS FROM ALLIS-CHALMERS — ONE IN A SERIES]

How to make CENTRIFUGAL PUMPS Last Longer...

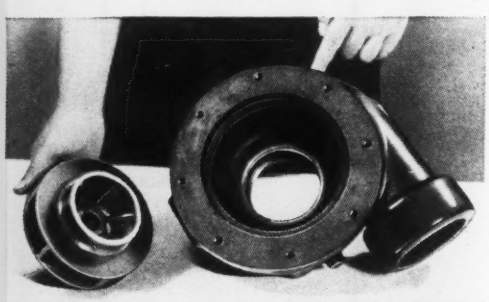




1 WHEN YOU HAVE an A-C "Electrifugal" pump you don't have alignment problems, for *both* impeller and rotor are mounted on *one* shaft. However, most pumps are coupled to separate motors . . . and how well the two are kept in alignment has a lot to do with how long they last. For timely help, get your *free* copy of Allis-Chalmers' "Handbook for Wartime Care of Centrifugal Pumps".

2 ALL BEARINGS AREN'T ALIKE. For example, while too much lubricant won't harm sleeve bearings, in anti-friction bearings it *promotes* friction. So play safe . use only the *right* amount of the *right* lubricant — as recommended by your manufacturer.

3 SLEEVES WEAR UNDULY when water seal piping is plugged, lantern ring displaced, water is dirty or stuffing box gland is drawn too tightly. By keeping a constant check on such sources of wear, sleeve life can be materially lengthened. For valuable tips on how to locate, how to remedy these and other pump troubles, consult the "Handbook".



4 THE KIND OF PACKING, and *how* you use it have a lot to do with how long your pumps last. Commonest cause of trouble traces back to lack of "know-how" in caring for stuffing boxes. A quick picture of the *how* and *why* of efficient packing can be found in the "Handbook".

5 AN OFTEN OVERLOOKED CAUSE of impeller and casing wear is cavitation. For if a pump's capacity, head and particularly, suction lift aren't figured properly, this enemy can eat vital parts away fast. Allis-Chalmers' "Handbook for Wartime Care of Centrifugal Pumps" contains a step-by-step method for figuring head, plus tables of losses to help you apply your pumps correctly.

TODAY, with pumps working harder than ever and replacements difficult to obtain, you can't afford to take chances on maintenance. That's why Allis-Chalmers has published its "Handbook for Wartime Care of Centrifugal Pumps".

Write for your *free* copy of this valuable book today! It applies to *all* makes of pumps; contains *no* advertising.

And when you *do* need new pumps, look into the extra efficiency of A-C centrifugal pumps . . . the "Electrifugal", and all types for every purpose. ALLIS-CHALMERS, MILWAUKEE.

A 1776

ALLIS-CHALMERS PUMPS

Allis-Chalmers builds all types and variations of pumps shown at right. Capacities from 10 to 150,000 gpm—heads to 2500 lbs.

The Week In Engineering and Construction

ENGINEERING NEWS-RECORD • MAY 10, 1945 • VOLUME 134 • NUMBER 19

Federal aid now available for local planning groups

All local public works agencies other than state highway departments eligible to share in $17,500,000 appropriation to be allocated by FWA

A sum of $17,500,000 of federal aid is now available for the preparation of postwar public works plans by states and their political subdivisions, this money being included in an Independent Offices Appropriations bill (H. R. 1984) signed last week by the President. All state, county and municipal agencies except state highway departments, which are supplied with planning money in federal highway acts, are eligible to receive such aid.

The appropriation will be allotted by the Bureau of Community Facilities of the Federal Works Agency. The Bureau of Community Facilities was established last winter with George H. Field as commissioner (*ENR* Jan. 18, 1945, vol. p. 89). One of the aims at that time was to have an organization ready to allocate any federal aid made available through the FWA.

Formula for distribution

In apportioning the money three percent will be set aside for administrative expenses. The remaining $16,975,000 will be apportioned among the several states as follows: 90 percent or $15,803,181 in the proportion that the population of each state bears to the total population of all the states, and 10 percent according to the discretion of Maj.-Gen. Philip B. Fleming, FWA administrator. However, the allotment to no state shall aggregate less than one-half of one percent of the total fund available. See table on next page for the total funds to which each state is entitled.

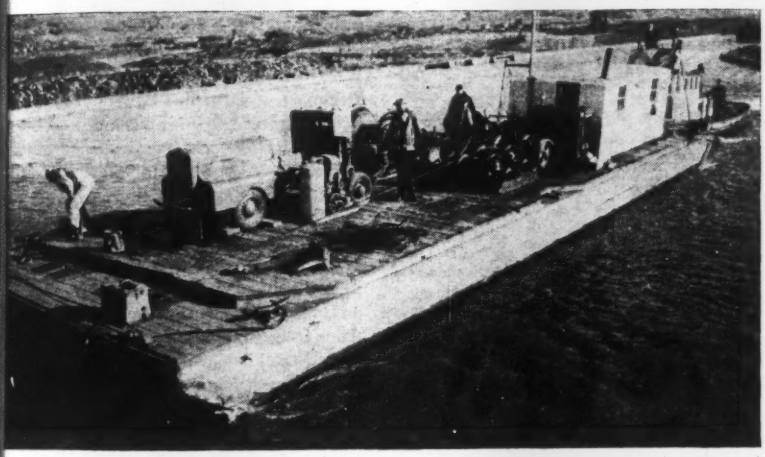
WHERE TO APPLY

Div. No.	Division Engineer, Headquarters and Present Office Location	States Under Each Division
1	L. A. Gillett 101 Park Avenue New York 17, N. Y.	Me., Vt., N. H., Mass., Conn., R. I., N. Y., N. J.
2	Henry J. Sullivan Lemon Building Washington 25, D. C.	Pa., Md., Del., Va., W. Va., D. C.
3	Oliver T. Ray 20 Fifth Street, N. W. Atlanta, Ga.	N. C., S. C., Ga., Fla., Tenn., Ala., Miss.
4	R. C. Ashton 1506 Civic Opera Bldg. 20 N. Wacker Drive Chicago 6, Ill.	O., Ky., Ind., Mich., Ill., Wis.
5	C. W. Anderson City Hall & County Court House St. Paul 2, Minn.	Minn., Ia., Mo., N. D., S. D., Neb., Kan.
6	James W. Bradner, Jr. 710 Electric Building Fort Worth 2, Tex.	Ark., La., Tex., Okla.
7	William H. Cheney 2223 Fulton Street Berkeley 1, Calif.	Nev., Ariz., Cal., Wyo., Colo., Utah, N. M., Hawaii.
8	L. R. Durkee Room 511, 618 Second Ave. Seattle 4, Wash.	Mont., Idaho, Wash., Ore., Alaska.

Note: Puerto Rico, the Virgin Islands and the Canal Zone are assigned to the Central Office of the Bureau.

The money will be made available as "advances without interest." With this arrangement if a project planned with federal assistance reaches the construction stage the advance planning funds must be repaid without interest. No

(*Continued on next page*)



Investigate swift water dam site on Columbia

In what authorities described as the deepest inland diving operation ever attempted, five divers associated with Pacific Diving Salvage Co. of Portland, recently explored the floor of Columbia River, 207 ft. below the surface at Big Eddy, three miles east of The Dalles, Ore.

Under contract with U. S. Army Engineers, the divers made 14 descents to determine whether the river bed at that point was suitable for construction of a proposed $260,000,000 dam. They found a solid rock foundation but reported that the current, even at the bottom of the river, was so swift that operations were difficult.

To combat the current, the divers ran a cable to the floor of the river, where it was anchored. In making their descents the divers clung to the cable to avoid being swept downstream.

Admitting that dam construction in 207-ft. deep swiftly moving water would be a hard task, with major obstacles to be overcome, the engineers, nevertheless, will report to Congress that the project is feasible. The Columbia is only about 500 ft. wide at the proposed damsite.

Big Eddy is one of three sites being surveyed for the dam the Federal government proposes to build between the projected Umatilla Rapids Dam, already authorized by Congress, and Bonneville Dam, now in full operation. The site for the proposed dam is 53 mi. above Bonneville.

repayment will be required, however, if a project is planned but never built.

No advances are to be made for any project unless it conforms with an existing over-all state, local or regional plan. Moreover, under no condition is the distribution of planning aid to be assumed as obligating Congress to appropriate funds for construction. These provisions are expected to make it attractive for local governments to plan a large backlog of public works projects, the construction of which would help to cope with unemployment in the early postwar years.

Requests for planning aid should be made to the proper division office as shown on preceding page.

DISTRIBUTION OF APPROPRIATION FOR PUBLIC WORKS ADVANCE PLANNING

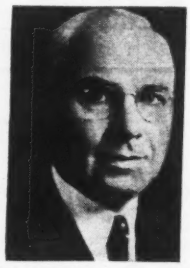
As Authorized by Title V of the War Mobilization and Reconversion Act of 1944

	Percent of State population to total of all states	Apportionment of 90%	Additional apportionment to provide ½ of 1%	Total apportioned
Alabama	$2.114	$322,966	.....	$322,966
Arizona	.372	56,832	$28,043	84,875
Arkansas	1.454	222,135	.....	222,135
California	5.152	787,097	.....	787,097
Colorado	.838	128,025	.....	128,025
Connecticut	1.275	194,788	.....	194,788
Delaware	.199	30,402	54,473	84,875
Florida	1.416	216,329	.....	216,329
Georgia	2.331	356,119	.....	356,119
Idaho	.392	59,888	24,987	84,875
Illinois	5.892	900,150	.....	900,150
Indiana	2.557	390,646	.....	390,646
Iowa	1.894	289,356	.....	289,356
Kansas	1.344	205,330	.....	205,330
Kentucky	2.123	324,341	.....	324,341
Louisiana	1.764	269,495	.....	269,495
Maine	.632	96,554	.....	96,554
Maryland	1.359	207,621	.....	207,621
Massachusetts	3.221	492,088	.....	492,088
Michigan	3.921	599,031	.....	599,031
Minnesota	2.083	318,230	.....	318,230
Mississippi	1.629	248,870	.....	248,870
Missouri	2.824	431,437	.....	431,437
Montana	.417	63,707	21,168	84,875
Nebraska	.982	150,025	.....	150,025
Nevada	.082	12,528	72,347	84,875
New Hampshire	.367	56,068	28,807	84,875
New Jersey	3.104	474,214	.....	474,214
New Mexico	.397	60,652	24,223	84,875
New York	10.056	1,536,305	.....	1,536,305
North Carolina	2.665	407,145	.....	407,145
North Dakota	.479	73,179	11,696	84,875
Ohio	5.154	787,402	.....	787,402
Oklahoma	1.743	266,287	.....	266,287
Oregon	.813	124,206	.....	124,206
Pennsylvania	7.386	1,128,396	.....	1,128,396
Rhode Island	.532	81,276	3,599	84,875
South Carolina	1.417	216,482	.....	216,482
South Dakota	.480	73,332	11,543	84,875
Tennessee	2.175	332,286	.....	332,286
Texas	4.786	731,181	.....	731,181
Utah	.411	62,791	22,084	84,875
Vermont	.268	40,944	43,931	84,875
Virginia	1.998	305,245	.....	305,245
Washington	1.295	197,844	.....	197,844
West Virginia	1.419	216,788	.....	216,788
Wisconsin	2.341	357,646	.....	357,646
Wyoming	.187	28,569	56,306	84,875
Dist. of Columbia	.495	75,624	9,251	84,875
Alaska	.054	8,250	76,625	84,875
Hawaii	.316	48,277	36,598	84,875
Puerto Rico	1.395	213,121	.....	213,121
TOTALS	100.000	$15,277,500	$525,681	$15,803,181

Note: The balance remaining for discretionary apportionment is $1,171,819

Savage Retires from Bureau of Reclamation

John L. Savage, chief designing engineer for the Bureau of Reclamation, retired effective April 30. Secretary of Interior Ickes announced on May 9. A member of the Bureau of Reclamation staff for 34 years, Mr. Savage has aided in the preparation of plans for construction of dams costing a total over a billion dollars. Although he has reached the retirement age of 65, Mr. Savage will continue to serve the bureau part time as consulting engineer.



Mr. Savage has had an illustrious career in dam design equalled by few engineers. After graduation in 1903 from the University of Wisconsin with a degree in civil engineering, he did field work with the U. S. Reclamation Service, now the Bureau of Reclamation, on the Minidoka project in Idaho. The next four years were spent as a designer in the Boise office. In 1908 Mr. Savage left the Reclamation Service to become associated with A. J. Wiley in engineering consulting work at Boise, and in that capacity designed many important engineering works.

In 1916, Mr. Savage returned to the Reclamation Service in charge of civil engineering design in the newly organized office of the chief engineer at Denver. In 1924 he was placed in charge of all electrical and mechanical designing with the title of chief designing engineer, the position held until his retirement. In this position Mr. Savage served as designing engineer on the three largest concrete dams in the world —Boulder, Grand Coulee and Shasta. Other famous dams designed under his direction include Norris and Wheeler dams on the Tennessee, Friant Dam of the Central Valley Project, Madden Dam at the Panama Canal, Marshall Ford Dam in Texas, and Imperial and Parker dams on the Colorado River.

Recently Mr. Savage returned from a special mission to China, India and Palestine where he represented the U. S. State Department in its cultural relations plans. In China he made surveys for postwar reclamation projects.

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Missouri Valley Authority opposed by Senate Commerce Committee

Action taken despite testimony of Secretary of Interior Ickes that favors formation of valley authorities

Defeat of the bill now before the Senate to create a Missouri Valley Authority (S. 555) was recommended early this week by the Senate Committee on Commerce, following nearly two weeks of hearings. The committee considers that development of the basin can best be carried out by existing federal agencies.

The bill under consideration was that introduced by Senator Overton of Louisiana in February. It would create a corporation vested with the power to establish and administer for an area of 360,000 sq. mi., or about one sixth of the United States, a unified water control and resource development, giving due regard to "economic, social and cultural values."

Existing agencies favored

Opposition to the bill centered around its features relating to navigation and flood control. The committee recommended that the Corps of Engineers continue to direct this work, stating that "flood control is not a Missouri regional problem any more than it is a local problem. Flood control is a Mississippi basin-wide problem, in which the Missouri River is only one of the tributaries. The flood control problem of the Mississippi basin can be solved only by federal control by one agency, with authority over the entire Mississippi basin. The agency best qualified for this task by experience and training is the United States Army Engineres . . . their record is conclusive evidence of their qualifications to carry out the flood-control program in the Missouri valley."

The committee also recommended that Department of the Interior, which means the Bureau of Reclamation, do the irrigation work in the basin. In taking this view the committee said, "the Flood Control Act of Dec. 22, 1944, approved a general comprehensive plan for flood control, irrigation, hydro-electric power development, and related purposes in the Missouri basin and authorized the appropriation of $400,000,000 for the War and Interior departments to prosecute the initial stages recommended. Coordination of the plans of the two departments was effected after lengthy hearings before a subcommittee of the Commerce Committee. Sections 5 and 8 of that act established a national policy under which the Secretary of the Interior was made responsible for the disposal of electric energy generated at reservoir projects under the control of the War Department, and for the utilization of water available at such projects for irrigation.

"The River and Harbor Act of March 2, 1945, adopted a project for the improvement of the navigation channel of the Missouri River between Sioux City and the mouth. Both this act and the flood control act provide that the use for navigation of waters arising in states lying wholly or partly west of the 98th Meridian shall not conflict with any beneficial consumptive use of such waters for domestic, municipal, stock watering, irrigation, mining, or industrial uses. These authorizations provide for the development of the water resources of the Missouri valley on a comprehensive scale, and at the same time protect state and local water rights. The projects may be expanded to meet future needs as they develop. Work on the authorized projects can be undertaken as soon as funds are made available by Congress. Prosecution of these projects will solve the water-resource problems of the Missouri valley."

Ickes supports bill

The committee recommended that the Department of the Interior do the irrigation work despite the fact that Secretary Ickes had testified in favor of the bill. He had stated, "I am here to advocate the extreme desirability, and even the necessity, of creating not merely a Missouri Valley Authority, but a series of authorities, for the orderly development and conservation of the resources of the entire nation . . . The success of the TVA has convinced me that the theory of governmental organization by regions rather than by functions is a sound one for many aspects of natural-resources administration, if wisely used."

Mr. Ickes also said, "The Secretary of Interior in advocating a broad pattern for valley authorities, establishes that he believes in them so firmly that he is willing to take such a step as could approach the liquidation of the Department of the Interior." He qualified this view, however, by adding; "He hopes that you [Congress] will not go too far, but he is proposing to the Congress that it vest directly in the valley authorities much of the jurisdiction that has heretofore been lodged clearly and exclusively in the Secretary of the Interior. Such a relinquishment of power is not in the normal Washington tradition, and you may accept my report as a measure of my fundamental conviction that the establisment of valley authorities is in the public interest."

Before the Senate as a whole may begin debate on the bill both the Committee on Irrigation and Reclamation and the Agriculture Committee must hold hearings on the proposal. Since each of these organizations is allowed 60 days for hearings, consideration in the Senate may not occur for some time.

. . .

Robert C. Post dies, construction engineer

Robert C. Post, 67, of Englewood, N. J., president of Post & McCord, New York construction engineers, died at his summer camp in New Brunswick, Canada, on May 2.

Monarch Studios

Born in Jersey City, N. J., Mr. Post was a grandson of Simon Post, one of the founders of the American Society of Civil Engineers. He was graduated from Stevens Institute of Technology in 1898 and was one of its most active alumni. At his death he was chairman of the executive committee of the board of trustees and on several occasions he had served as acting president of the Institute.

On leaving college Mr. Post spent a year with the United Gas Improvement Co. in Philadelphia, then a year as assistant superintendent of the U. G. I. gas works at Atlanta, Ga. He was with the American Bridge Company from 1899 until 1903, when he joined in forming Post & McCord.

Mr. Post's firm erected the steel for bridges and buildings, including the Empire State Building, Chrysler Building, Radio City, and the Bankers Trust Company Building in New York City, and for other large modern structures.

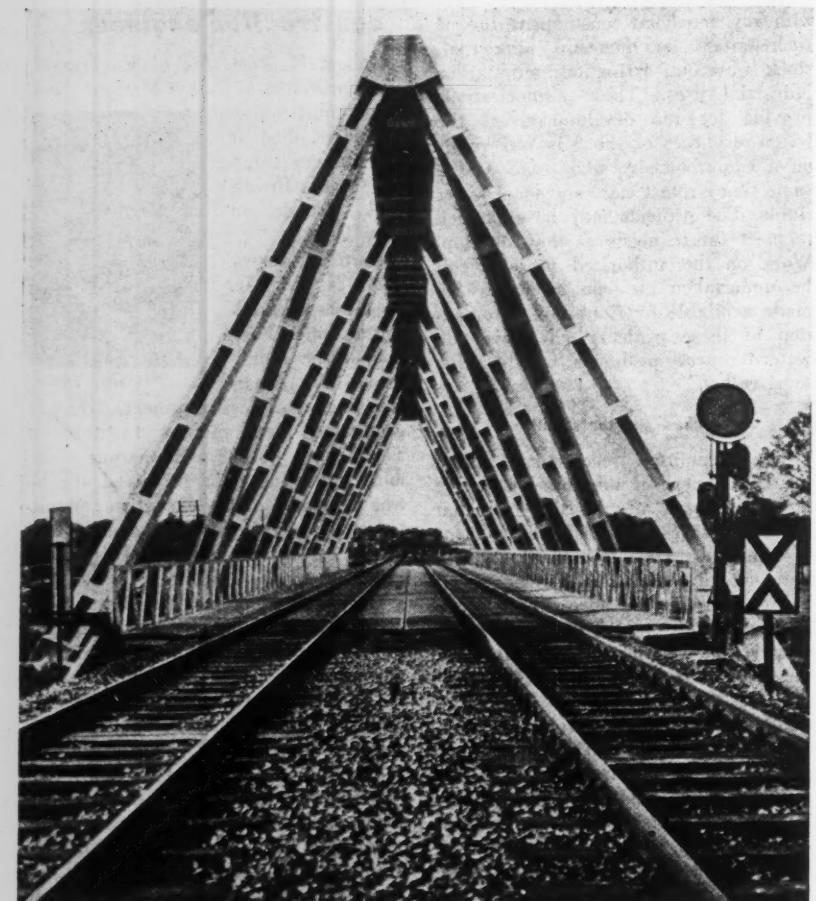
Mr. Post was president of the Credit Association of the Building Trades Association of New York and a director of the American Institute of Steel Construction.

Famous German Triangular Bridge Has American G.I. Neighbor

Waldo G. Bowman
Editor, Engineering News-Record

One day in July, 1930, before the Nazis came to power, the Germans held a gala celebration in the outskirts of the neat little city of Duren to mark the opening of a new double-track railroad bridge over the Roer River. Not only was the structure an important link in the main line west from Cologne to the Belgian frontier, it was also of unusual type, being of triangular rather than conventional rectangular cross section. There was much satisfaction in this example of German initiative and ingenuity, and no time was lost in telling the world of the achievement. The Duren bridge with its single top chord became famous.

Nearly fifteen years later, having in the interim stimulated their sense of greatness by an injection of Nazi world-domination serum, some of these same Germans again stood on the bank of the Roer at Duren. No longer, however, were they proud and arrogant, for their once famous triangular bridge, its back broken by a demolition charge, sprawled ungracefully on the river bottom. And of even more ignominious portent, a replacement bridge was being constructed beside it by a company of American boys, turned Army Engineers, who were disgusted with all things German, and showed it. So far as they were concerned, a bridge which had once enjoyed worldwide distinction was just a part of the general wreckage resulting from our most costly river assault crossing of the war and the battle that marked the end of the German army as a military threat in the west.



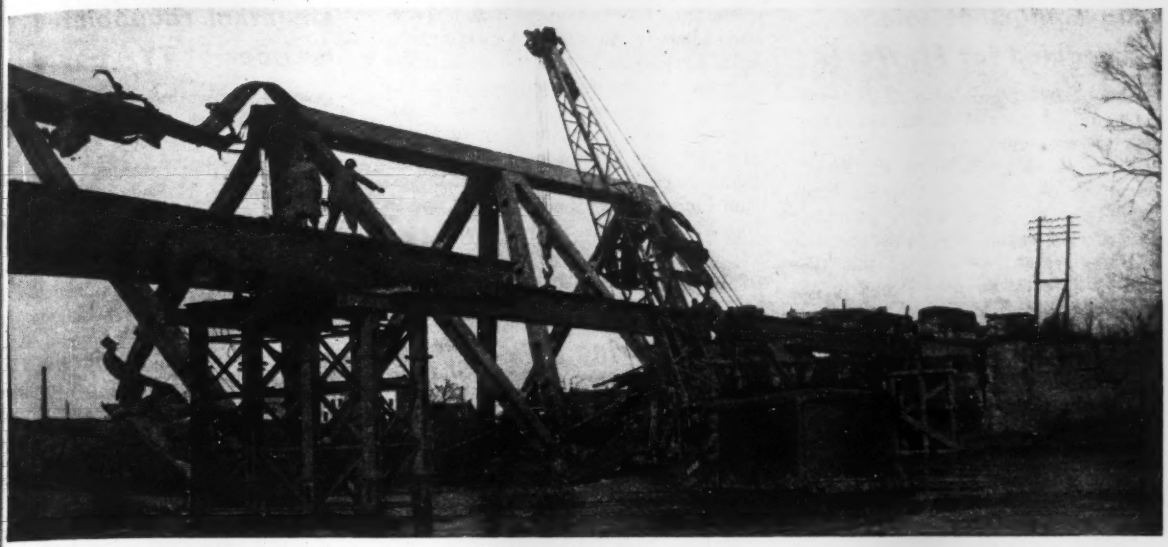
Triangular bridge at Duren, Germany, which was wrecked by Nazi demolitions, crossed the Roer River in a single span of 256 ft. Only modern bridge of its type, it was 44 ft. wide at the base and 48 ft. high. Top chord is a channel-shaped box built up of plates and stiffened by heavy diaphragms. Other members are built-up H-sections, using structural channels for flanges.

Earlier triangular bridges

The Germans were wrong, of course, in even assuming that theirs was the first triangular bridge, for at least two others preceded it by many years. Located in Britain, and products of the great bridge engineer, Brunel, they were the Chepstow bridge of 1852, much like the Duren structure except that the top chord was tubular, and the Saltash bridge of 1859, also with a tubular top chord, but with trusses of lenticular shape. The latter structure, too, was of major size, containing two 455-ft. spans.

These facts, and others relating to the Duren bridge as given in the caption to the accompanying picture, were, however, of no concern to the officers and men of the 341st Engineer General Service Regiment in February, 1945. They had arrived at the Roer on the heels of the troops making the crossing on the 23rd, two of their number had been killed by a mine while making a reconnaissance on the 25th, and on the 27th they went to work with two crawler cranes, two welding sets and a bulldozer.

Eleven days later a train crossed the bridge they had built, a structure of five meter-beam spans totaling 276 ft. from end to end. In order, from the



Even though the Roer was in flood from German release of impounded supplies upstream, water was shallow enough and bottom solid enough to permit a 20-ton crane to wade out and set the meter beam spans. Note demolition damage to top chord of triangular bridge.

west, the spans were 57-52-72-63-31 ft., the wide variation in length resulting from the unexpected discovery (after the timber piles for the first two piers had been driven) of foundations of an old bridge, which could be used as supports for piers of prefabricated light steel trestling; the 57 and 52-ft. span lengths were planned, the others resulted from utilization of the existing foundations, whose presence was first learned from an old photograph found in a house in Duren. Incidentally, upon the recession of the flood stage in the Roer, which it will be recalled resulted from man-made dam breaks upstream, the tops of the old foundations appeared above water level.

Track ties (right center) follow steel erection as welders complete bracing connections. The two steel trestling piers rest on foundations of an old bridge, not discovered until after timber piles for the piers in the background had been driven, completely missing the old foundations near them.

Col. Edward H. Coe, commander of 341st Engineer General Service Regiment, which built the railroad bridge across the Roer at Duren to replace the existing triangular bridge shown sprawled in the river where it was dropped by German demolitions.

Big equipment sale scheduled for Ft. Worth

About 2,000 pieces of used construction equipment and farm machinery with an estimated value of $1,500,000 will be sold May 28-30 at Ft. Worth, Texas, by the Office of Surplus Property. This equipment will be primarily construction machinery, and the sale will be larger than any of this type held to date by Surplus Property officials.

Details concerning the sale can be obtained from Mrs. Wynona Partwood, Neil P. Anderson Bldg., Ft. Worth, local representative for the Office of Surplus Property.

For a detailed description of on-the-spot bidding methods to be used see *ENR* March 22, 1945, vol. p. 393.

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Bulldozer men's strike halts St. Louis building

Nearly all construction of a major nature in St. Louis and St. Louis County, Mo., was halted at 9 a. m. May 1 by an unauthorized strike of the operators of bulldozers, members of the AFL Operating Engineers' Local Union No. 513. Representatives of the union, however, said it was a "shut down" in retaliation against a few men who quit work because of dissatisfaction with wages.

Early this week labor conciliators of the federal Department of Labor were endeavoring to arrange a meeting of all parties concerned in the hope of a settlement. In the meantime all jobs using bulldozers are shut down with about 200 workers affected, including crane and dragline men.

An officer of the Municipal Contractors' Association said the contractors had refused the men's demands for an increase in their wages from $1.50 to $2 an hour. Wages negotiations have been in progress between the contractors' association, representing 23 contractors, and the union.

The principal projects halted by the walkout are the government warehouses at 8900 South Broadway, an addition to the General Motors Corporation's Chevrolet Division shell plant and sewer jobs in McKnight and the Jennings-Walnut Park Manor sewer districts of St. Louis County.

William A. O'Connell, business agent for the union, said: "There is absolutely no strike. A few members of the union quit because of certain wage conditions. The contractors in retaliation shut down all of their jobs before we had an opportunity to discuss the situation."

The contractors said that the first notification they received from the union of the intention to reopen wage negotiations came on March 27. A meeting was held April 3 at which the contractors proposed to request approval from the Wage Adjustment Board for the building and construction industry, of a rate of $1.72½ for bulldozers. They said this figure was selected since it was a 15 percent increase over the $1.50 rate and in line with the Little Steel formula.

• • •

Paxton now publisher of Engineering News-Record

Albert E. Paxton, business manager since 1937, was appointed publisher of *Engineering News-Record* and *Construction Methods* on May 1. He succeeds John Abbink, vice president of the McGraw-Hill Publishing Co., Inc., who will devote his activity to editorial supervision of all the McGraw-Hill operations, a task to which he has been giving increased attention during the past few months.

Mr. Paxton has been associated with both editorial and business phases of

publishing activity since his graduation from the University of Illinois in 1925. At that time he became editor of *Industrial Merchandising*, which was purchased by McGraw-Hill in 1928 and later merged with *Mill Supplies*. Serving as editor of the latter publication until 1934, he then became manager. Three years later he was made manager of *Engineering- News-Record* and *Construction Methods*.

Mr. Paxton, who brings to his new post a sympathetic appreciation of the construction industry's problems and responsibilities, has been active on the public relations committee of the American Road Builders' Association and with the postwar planning promotion of the Committee on Water and Sewage Works Development.

Lilienthal reappointed member of TVA board

David E. Lilienthal, chairman of the Tennessee Valley Authority, has been reappointed to the TVA board for a 9-yr. term by the President. There is no indication as yet whether Mr. Lilienthal or some other member of the board will be named to act as chairman.

Mr. Lilienthal has been a member of the board since its organization and chairman since 1941. Washington officials have made little comment as to whether a Senate fight will result because of the President's action. It is known, however, that the reappointment was bitterly opposed by Senator McKellar of Tennessee and president pro tempore of the Senate.

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FPC engineering work to be consolidated

In the interests of economy and efficiency, the Federal Power Commission has consolidated its engineering activities in a single bureau known as the Bureau of Power with headquarters in Washington, D. C. and field offices at New York, Atlanta, Fort Worth, San Francisco and Chicago. Those engineering activities formerly handled from Baltimore are being transferred to Atlanta, New York and Chicago.

The chief of the bureau is E. Robert de Luccia, former lieutenant colonel, Corps of Engineers. Francis L. Adams, former regional administrator at Fort Worth, has been appointed assistant chief of the bureau with special responsibility of coordinating the work of the field offices. Heading the principal divisions of the bureau are: Frank L. Weaver, former associate chief, Bureau of Water Power, River Basin Division; C. E. Bennett, former acting chief, Bureau of Electrical Engineering, Electrical Division; W. R. Farley, Licensed Projects Division; and Eugene Logan, Projects Cost Division.

In order to give emphasis to the engineering character of the regional offices, former regional administrators have been replaced by regional engineers. The following are in charge of the respective field offices: D. J. Wait, New York; Marion F. Hetherington (acting), Atlanta; Wilbur F. Fairlamb (acting), Fort Worth; Benjamin H. Greene (acting), Chicago; and John C. Beebe (acting), San Francisco, in addition to other duties as special assistant to the commission. J. D. Carroll who formerly headed the Baltimore office has been named chief of the Transmission Section in the Electrical Division.

FROM AN EDITOR'S NOTEBOOK

On the threshold of reconstruction, the Philippine Islands will need help for this task from the United States. An outline of our possible role is found in these impressions of an engineer officer recently returned from Manila.

San Francisco — "Manila needs everything," said my friend in uniform, just returned from a survey of conditions in the Philippines. "Only parts of the city have been totally destroyed of course, but such a large percentage of essentials must be at least rehabilitated that the city now has a great opportunity in the possibility of an entirely new start in city planning and layout."

"But," I said, "nothing much could be done until after the war, could it?" "On the contrary," he said, " it is not a bit too early to start right now on the planning because there is so much to be done and so many decisions to be made as to the proper procedure, not to mention the working out of the fundamental matter of financing. Altogether there would be great advantage in having this preliminary work done and blueprints ready by the time shipping will be available and there could be an actual start on construction.

Long range program

"Nothing less than a program laid out on the basis of a very broad point of view and contemplating unit-by-unit development to extend over a period of years would be adequate. This is an enormous undertaking and if properly programed it can have a great influence on future development in the Philippines.

"There's an island empire to conjure with," he went on, warming up to the subject, "a country rich in resources and of much greater future possibilities than most people in this country realize. After the war the Filipinos will be ready to greatly extend development and production. They will need our aid in financing, they need the ingenuity and initiative of our engineers and of our construction industry in getting started. We, in turn, could well afford to pour some of our money available for investment, our skilled workers and construction equipment into the undertaking in exchange for an interest in the future that lies ahead for a country with such vast natural resources.

"Take Manila as a starting point: Our city planners should first lay the groundwork for a great capital city, planned according to modern ideas for a community that would be suitable as the GHQ for the progress and development that lies ahead in the Philippines. Because it must include sewers, water supply, power, bridges, boulevards and buildings, the advance planning to be done may have to be divided into two phases. First, emergency, or, perhaps we should say, temporary provisions, such as housing facilities, etc., and, then, the long-term 'permanent' construction on the broad-gage scale that looks to the great commercial future of the Philippines.

"In the same category as the temporary housing requirement comes the salvage and disposal of the wreckage of war. Just the clearing of streets and reconstruction of immediate essentials to safety and sanitation constitute a big order. One item is the harbor. There are a great many ships that have been left where they were sunk or otherwise damaged in Manila Bay. Each of these must be examined; some can be salvaged, many must be removed from the status of 'menace to navigation.'

Can use equipment

"An enormous amount of construction equipment now being used by our forces in the Pacific might be diverted, after the war, for use in the Philippines. Also, if the necessary plans have been made by that time it should not be difficult to recruit enough skilled construction workers in America to get the work under way and to train Filipino labor, of which there is a good supply. This local labor can be trained to operate equipment and can acquire skill in welding, electrical work, plumbing, carpentry and allied building trades. Altogether Manila presents a challenge. Here is a great city (well over half a million people before the war) now in urgent need of much that only America has. The Filipinos know us and it is believed that our cooperation in reconstruction will be welcomed; it only remains to reach an understanding with Filipino leaders."—*N.A.B.*

Press Assn. photo

Repair and reconstruction work in Manila has already begun. The late photograph reproduced above shows engineers and workmen preparing to replace the destroyed Santa Cruz Bridge on the south side of Plaza Goiti with a Bailey bridge. In the background stands the wrecked postoffice building, which was gutted during the fighting between the American forces and the Japanese.

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Last S. C. toll bridge to be freed next year

South Carolina's last toll bridge will be freed July 1, 1946. It is the 2,650-ft. John P. Grace Memorial Bridge over the Cooper River at Charleston. Under an act signed recently by Governor Ransome J. Williams, the state highway department will assume $4,150,000 worth of bonds issued by Charleston County to purchase the bridge from its owners, Cooper River Bridge, Inc. The bridge was completed in 1929.

Billion-dollar airport program recommended by Senate committee

Approves bill providing $500,000,000 of federal aid over 5-yr. period to construct 3,000 new fields and to improve existing ones

A one-billion-dollar postwar airport construction program with 50 percent of the cost to be met by the federal government was approved last week by a subcommittee of the Senate Committee on Commerce. Following extensive hearings, the committee recommended passage in amended form of a bill (S. 2) making available $100,000,000 of federal aid yearly for the first five postwar years, this money to be matched on a fifty-fifty basis by local interests. The Senate expects to start debate on the proposal in about two weeks.

The bill up for passage implements the recommendations of the Civil Aeronautics Administration in connection with the national airport plan submitted to Congress last November. This plan (See *ENR* Dec. 7, 1944, vol. p. 725 for detailed description) calls for construction of 3,050 new airports and improvement of 1,625 existing fields at an estimated cost of over $1,021,000,000 for grading, paving, lighting, and radio facilities, plus about $230,000,000 for land and buildings other than hangars.

Completion of this work in five years, rather than as a 10-year program, was favored by the subcommittee. It was felt that the five-year schedule would be best if the aviation industry is to hold its proper place in the postwar period.

The subcommittee has recommended a compromise between those advocating an airport program on a federal-state basis and those supporting a federal-city basis, which has been used so successfully in developing this country's airport facilities to date. It was deemed undesirable to discard wholly the successful federal-city set-up of the past, since obviously it will take some time for the states, which have done little airport work to date, to secure the necessary legislation and financing for such a substantial program. At the same time the committee was mindful of the desirability of the federal government dealing with the states with respect to all but the largest airports, and making sure that the states may participate in the sponsorship of even such fields.

States to build smaller airports

Therefore, the recommended bill provides for an urban program to consist of Class 4 and larger airports, which may be sponsored either at the municipal level or by state agencies, and a state program consisting of Class 3 and smaller fields. This latter work would be handled entirely through the state organization, excepting where states have no airport agencies. In this case municipalities would be allowed to sponsor projects under the state program to avoid long delays in getting airport construction started on a large scale.

Regarding distribution of the federal aid, the amended bill would limit the aid to the urban program to 35 percent of the total appropriation. This figure is a compromise between two proposals, one of which would provide a 50 percent limitation and the other a 25 percent limit.

Early planning start possible

A section of the amended bill authorizes an appropriation of $3,000,000 to the Civil Aeronautics Administration for preliminary planning and surveys. There is no provision in the bill to make funds available for preliminary planning to states and local groups. This is an intentional omission on the part of the subcommittee, in view of the fact that the planning costs of project sponsors, whether state or local, will be shared by the federal government when the project is approved. The $3,000,000 would be made available immediately for planning to permit the construction work to be started as soon as the war ends. This planning money would be spent in a manner adopted in recent postwar highway legislation, it is recommended.

One section of the bill sets up several major requirements for eligibility of states to participate in the program, but in view of the fact that many state legislatures may not meet for two years, all of these requirements are suspended for a period of three years in order that all states may have ample time to enact the necessary legislation to comply with the act. The single eligibility requirement not suspended is that the legislature of a state wishing to take part in the program shall have assented to the provisions of the act. Until the final adjournment of the first regular session of any state legislature convening after approval of the bill, the assent of the governor of the state shall be sufficient.

Construction would be done under both state airport agencies or project sponsors, if the proposed bill is passed. For a state to authorize its highway department or some similar organization to act as the state airport agency would be permissible.

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Finances discussed by A. G. C. officers

Some 35 chapter secretaries and branch managers of the Associated General Contractors of America from all parts of the country met in Chicago last week for a two-day session with the the Association's executive committee and principal members of the Washington staff. The main purpose of the meeting was to discuss recent developments in the association's affairs, particularly means of financing the proposed enlargement of labor relations and public relations activities. The secretaries were denied attendance at the A.G.C. board meeting in Chicago early in March, which took the place of the annual convention, by an ODT ruling limiting that meeting to 50 persons.

Besides the proposed increase in dues, the secretaries considered the construction market, current legislation pertaining to construction, relaxing of WPB restrictions, labor matters, public relations, surplus equipment disposal and apprentice training. They were somewhat disturbed by reports that the Bureau of Reclamation intends to buy a lot of surplus equipment and supply such machinery to its contractors. The bureau already furnishes most materials, so the contractor would be reduced to the role of labor broker and job administrator.

Frank H. Conner, manager of the Carolinas Branch, Charlotte, N. C., is the new chairman of the Secretaries' Council.

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Truck load limit raised on Texas highways

The Texas legislature has passed a bill to increase the truck load limit on the states's highways from 38,000 to 48,000 pounds. A message in support of the bill had been received from J. M. Johnson, director of the Office of Defense Transportation, who said Texas' limit, lower than that of any adjacent state, had handicapped wartime transportation, especially the movement of petroleum products, including aviation gasoline. He said that the higher loads would not hurt highways.

News of the Engineering Schools

John Harold Lampe, former dean of engineering at the University of Connecticut, has assumed his duties as dean of the School of Engineering at North Carolina State College, Raleigh, N. C.

Lawrence M. Freidrich, associate professor of civil engineering at the University of Toledo, Toledo, Ohio, has resigned, effective June 30.

Two women, the first ever to be graduated from Rensselaer Polytechnic Institute, received their degrees April 22. They were Miss Lois Graham of Troy and Miss Mary E. Rathbon of Hoosick Falls, N. Y. The class numbered 550.

The need of broadening the scope of engineering training in Canadian colleges by more attention to the liberal arts was stressed recently by E. P. Fetherstonhaugh, Winnipeg, Man., on his first visit to the Halifax, N. S., branch of the Engineering Institute of Canada since he became dominion president of the institute. Mr. Fetherstonhaugh said some of the Canadian universities are now adding a year or so of arts studies to the 4-year engineering course, while others are endeavoring to find time for such studies by reducing the number of hours spent on strictly engineering subjects.

The National Safety Council has granted to New York University College of Engineering a subsidy of $8,000 to establish a professorship in safety engineering and to reorganize and re-equip all the engineering laboratories and shops of the college so that they will incorporate safety practices.

There will not be a specific safety engineering course but the idea of safety will be integrated into all regular engineering courses, where aplicable, according to Dean Thorndike Saville, the object being to make the student "safety conscious" so that the application of good safety practices can be expected from him as a matter of course.

It is said that the National Safety Council will encourage similar courses at the Georgia School of Technology, the University of California, and the Illinois Institute of Technology.

A grant of $50,000 has been made by the Charles Hayden Foundation to Stevens Institute of Technology, Hoboken, N. J., in connection with the institute's 75th anniversary, it was announced April 26 by Harvey N. Davis, president.

The foundation was established in 1938, under the will of the late Charles Hayden. The Stevens trustees will meet soon to decide what to do with the gift.

Ralph D. Hetzel, president of Pennsylvania State College, has announced that the U. S. Navy will establish an ordnance research laboratory there in association with the college's school of engineering. The Navy's underwater sound laboratory now at Harvard University will be transferred to Penn State to be placed on a permanent basis under direct Navy jurisdiction.

A staff of more than 125, including engineers, scientists, technicians, clerical workers and others will be transferred as laboratory personnel. Dean H. P. Hammond said that the laboratory will be in full operation by July 1.

Long-term reclamation program recommended

A $3 billion, federally-sponsored reclamation program extending over a 50-year period was recommended to be the most advantageous method for developing irrigation in the 17 western states by the legislative committee of the National Reclamation Association meeting recently in Salt Lake City.

A program of federal control, rather than individual state projects, would prevent overlapping of plans and curtail expenses, would receive a continual flow of funds from Congress once it had been approved, and would employ millions of men in a national development, the committee declared.

The $3 billion should be set aside from money marked for flood control and harbor development, the committee believes. Previously on record as opposed to creation of river valley authorities, the association officials said such a program should include development of basins of the Missouri, Columbia, Colorado, Arkansas, Rio Grande and Brazos Rivers.

JOBS OF THE WEEK

ORDNANCE PLANT, McAlester, Okla.

Bureau of Yards & Docks, Navy Department, Washington, D. C., awarded a contract for the construction of an ordnance plant to J. A. Terteling & Sons, Inc., Boise, Idaho, at a cost of $7,300,430. DeLeuw, Cather & Co., Chicago, Ill., is the consulting engineer.

RAILROAD BRIDGE, etc., Fredericksburg, Va.

Richmond, Fredericksburg & Potomac Railroad Co., E. M. Hastings, chief engineer, Richmond, Va., awarded a contract to the Baltimore Contractors, Baltimore, Md., to construct a railroad bridge, piers, etc., and 2 miles of track at an estimated cost of $1,000,000.

BLUFF CREEK FILTRATION PLANT, Oklahoma City, Okla.

Lippert Brothers, Oklahoma City, Okla., was the lowest bidder at $1,058,406 for constructing Bluff Creek Filtration Plant and pumping station, when the City of Oklahoma opened bids. V. V. Long & Co., Oklahoma City are engineers. Federal Works Agency will help finance. This is the second opening on this project, with same bidder low.

HOUSING, Washington, D. C.

Public Housing Authority, Washington, D. C., received the lowest bid for constructing housing from Haris Construction Corp., Brooklyn, N. Y., at $1,470,500. Howe & Kahn, Philadelphia, Pa., are the architects.

HOSPITAL, Dublin, Ga.

Bureau of Yards & Docks, Navy Department, Washington, D. C., awarded a contract for the construction of a hospital extension, including 6 ward buildings, connecting corridors, cold storage building and animal house at Naval Hospital to Beers Construction Co., Atlanta, Ga., at $1,494,745.

MARGINAL WHARF, Stockton, Calif.

Bureau of Yards & Docks, Navy Department, Washington, D. C., awarded a contract for extensions to the marginal wharf at U. S. Naval Supply Annex, to MacDonald & Kahn, Inc., G. Pollock & Teichert & Son, Inc., San Francisco, Calif., at $1,814,345.

Note—Additional bidding and contract news on many projects large and small appear in the Construction News section beginning on page 11.

OBITUARY

John Augur Holabird, 59, head of the architectural and engineering firm of Holabird & Root, Chicago, died in that city May 4 on his 59th birthday. Though a graduate of West Point in 1907, he spent most of his career as an architect with the firm founded by his family, taking time out in World War I to serve as a major and lieutenant-colonel in the field artillery. He was prominent in Chicago civic affairs and was a member of the Chicago Plan Commission. He also served on the planning committee for the Chicago Century of Progress in 1933.

His firm has been responsible for the design of many prominent structures in Chicago and throughout the country. Notable Chicago buildings he had a hand in designing include Northwestern Technological Institute, Jane Addams and Trumbull Park housing projects, 333 No. Michigan Building, Chicago Daily News, Palmolive Building, Illinois Bell Telephone, the Palmer House and Stevens Hotel. The new Statler Hotel in Washington, D. C., is one of the latest of his out of town jobs. During the war his firm has been engaged in war plant activities and acted as architect-engineer for the big Scioto Ordnance Plant at Marion, Ohio.

George A. Taber, formerly a highway engineer at Fairmont, Minn., died recently at San Benito, Tex., where he had been engaged in the contracting business.

Thomas H. Joyce, 78, president of the veteran construction firm of Cameron, Joyce & Co., Keokuk, Ia., died April 23. A native of Ireland, in 1893 he became associated with Cameron, McManus & Joyce, which, with its successor company, has been engaged in highway, paving, railroad and earthmoving work in the Middle West.

Wallace W. Pratt, 74, town engineer of Swampscott, Mass., from 1911 until 1941, died at Brookline, Mass., on April 30. He was a graduate of the Massachusetts Institute of Technology, and before going to Swampscott was engaged in dam construction in western New England.

Willis Whited, 86, formerly bridge engineer for Pittsburgh, Pa., died April 28 in Philadelphia. He lived in Pittsburgh from 1899-1911. Specializing in the hingeless reinforced concrete arch bridge, he directed reconstruction of the 22nd St. Bridge in 1909. In 1911 he became bridge designer for the Pennsylvania Department of Highways, retiring in 1932.

Thomas D. Kemp, 77, retired Charlotte, N. C., civil engineer, died April 28. A native of Columbus, Miss., he formerly served as assistant highway engineer for the State of Alabama, and went to Charlotte in 1918 to become bridge engineer for the Southern Railway, a position he held until his retirement in 1937.

Joseph H. Gumbes, 79, Merion, Pa., former general superintendent of the Western Pennsylvania Division of the Pennsylvania Railroad, died April 24. He entered railroad service as a civil engineer and served 44 years with the Pennsylvania Railroad, retiring in 1929.

William H. Ogden, Jr., 73, an employe for 54 years of the Bureau of Engineering Surveys and Zoning, Philadelphia, Pa., died April 19. He was a member of the American Public Works Association, and had received the veteran's award given by that association for honorable engineering service. He had been surveyor in charge of the Third Survey District for the last 20 years, and had a part in the program of eliminating grade crossings in the city in the early 90's.

Charles Windett, 77, retired civil engineer, died April 10 at St. Petersburg, Fla. He was a graduate of Massachusetts Institute of Technology in 1894, and did important engineering work at the Sault Ste. Marie locks, sulphuric acid plants in Wisconsin, and steel furnaces at Watertown, Mass.

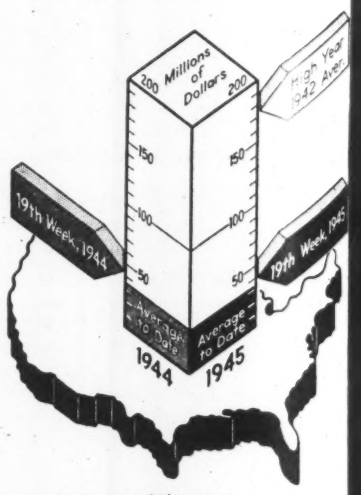
N. J. Baillargeon, 51, public works commissioner of Woonsocket, R. I., since 1943, and for 12 years previously the city's superintendent of highways, died recently in St. Petersburg, Fla.

Thomas F. Meagher, 67, assistant county engineer at Tulsa, Okla., died April 21. He served with Roosevelt's Rough Riders in the Spanish American War.

Frank X. Mercier, 74, for 33 years up to his retirement in 1942, an engineer with city engineering department, Cleveland, Ohio, died April 24. He had lived in Cleveland for 50 years.

Holton D. Robinson, 82, noted bridge engineer, died in New York City, May 7. Fuller notice will be published in next week's issue.

CONSTRUCTION ACTIVITY



As Reported This Week to... *Engineering News-Record*

CONTRACT VOLUME

Continental U. S. Only (Thousands of Dollars)

	Week of May 10 1945	Cumulative 1945 (19 wk.)	Cumulative 1944 (19 wk.)
Federal	$22,800	$344,084	$461,14
State & Municipal	11,902	81,099	64,75
Total Public	$34,702	$425,183	$525,90
Total Private	4,208	174,889	153,32
U. S. Total	**$38,910**	**$600,072**	**$679,22**

WHERE CONSTRUCTION ACTIVITY ORIGINATED THIS WEEK

Type of Work	Dollar Volume (Thousands) This Week	Cumulative 1945 (19 wk.)	Cumulative 1944 (19 wk.)
Waterworks	$751	$13,319	$8,92
Sewerage	581	11,014	8,43
Bridges	2,067	10,369	3,91
Highways	9,369	55,990	55,60
Earthwork, Waterways	909	13,428	21,21
Buildings, Public	17,636	247,426	272,57
Industrial	2,584	123,496	67,66
Commercial	400	29,952	70,95
Unclassified	4,613	95,098	169,55

NOTE: Minimum size projects included are: Waterworks and waterways projects, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

NEW PRODUCTIVE CAPITAL

	Cumulative 1945 (19 wk.)	Cumulative 1944 (19 wk.)
NON-FEDERAL	$235,855	$166,88
Corporate Securities	69,213	69,91
State and Municipal	145,742	43,15
RFC Loans	20,900	53,75
FEDERAL	$233,510	$245,24
Total Capital	**$469,365**	**$412,12**

ENR INDEX NUMBERS

Index Base = 100		1913	1926
Construction Cost	May '45	307.43	147.7
Building Cost	May '45	238.46	128.8
Volume	Apr. '45	99	43

CONSTRUCTION REPORTS

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ELSIE EAVES, Manager *SCOTT McLEOD, Statistics* *J. A. MAHONEY, Reports*

(Daily service also available—Write for details)

WATER SUPPLY

PROPOSED WORK

★**Conn., New Canaan**—Water Comrs., 74 Wall St., Norwalk, bids soon dam and reservoir in Silvermine Section. $600,000. Buck, Seifert & Jost, 112 E. 19 St., New York 3, N. Y., engr.

Ill., Chicago Heights—City, City Hall, approx. 250 ft. deep well, McCoy & Mulford, Chicago Heights, engr.

Ill., Clinton—City, approx. 350 ft. deep gravel pack well. Warren & Van Praag, Standard Office Bldg., Decatur, engrs.

Ill., Crossville—City, City Hall, plans completed well, pump, pump station with approx. 1 mi. connecting pipe, L. B. Kinsey, Kinsey Engr. Co., 512 Court St., Pekin, engr.

Ill., Steeleville—City, City Hall, completed plans pump and pump house, rock well. J. G. Cooney, Belleville, engr.

Ill., Wood River—City, City Hall, plans completed new drift well, pump and pump house. F. Nifolg, City Hall, city engr.

†**Ind., Bloomington**—City, City Hall, water and sewer mains serving Radio Corp. of America, plant and increase water pressure generally for domestic and fire-fighting purposes, $19,254. **FWA.**

★**Md., Baltimore**—City, Bd. Awards, City Hall, revising plans, bids soon Liberty-Rd.-Montebello Tunnel, (Patapsco Development). L. Small, Dpt. P. Wks., Bureau Water Supply, water engr. N. L. Smith, ch. engr. CD 1/18—ENR 1/25.

Mass., Palmer—Town, Bd. Selectmen, Town Hall, bids soon erecting steel standpipe, etc., Three River Fire Dist. Whitman & Howard, 89 Broad St., Boston, engrs. CD 3/27—ENR 3/29.

Mich., Monroe—City Comn., making plans elevated water storage tank $55,000, filtration plant imprvs. $44,000, electrification high service pump. plant, $29,700. Shoecraft, Drury & McNamee, Ann Arbor, engrs.

N. M., Eunice—City, deep test water supply well. $15,000 or more.

N. C., Asheboro—Town, O. L. Presnell, mayor, Town Hall, postponed bids to have been opened May 15, WW imprvs. Will readvertise. W. M. Piatt, Durham, engr. CD 4/3—ENR 4/5.

O., Bowling Green—City, watermain in east side of city, $30,000; also water tower.

O., Dayton—City, booster station. $20,000. J. F. Hale, Municipal Bldg., city engr.

O., Wilmington—Dayton Power & Light Co., Gas & Electric Bldg., Dayton, dam and pump. sta. Cowan Creek, 90 m.g. upground reservoir, 1 story, rein.-con., brick water treatment plant, 3 mi. c.i. pipeline connecting new supply with treatment plant. $300,000. Jones & Henry, Toledo Trust Bldg., Toledo, engrs.

Okla., Clinton—City Clerk, City Hall, rejected bids May 1, elevated water tank and tower, watermain extens., valves and hydrants, repairing filter plant. $135,000. Will readvertise. C. E. Bretz, 1300 Colcord Bldg., Oklahoma City, engr. CD 4/16—ENR 4/19.

Okla., Haskell—Town, voted bonds, addnl. waterworks exten. $30,000. Wood & Craig, Philtower Bldg., Tulsa, engrs.

Tex., Edcouch—City, O. McDaniel, mayor, City Hall, WW imprvs. $15,000.

†**Tex., Longview**—City, G. A. McCreigh, mayor, purchase and installation water sys. incl. 10,050 ft. 8 and 12 in. mains, to serve Harmn General Hospital, incl. 500,000 gal. ground storage tank. $102,000. **FWA.** B. A. Crocker, Longview, engr.

†**Tex., Pasadena**—Federal Works Agency, 18 and F Sts. N.W., Wash. 25, D. C., 1 m.g. storage reservoir, pump. station, 2 chlorinators, with necessary equip. $67,000. **FWA.** Garrett Engineering Co., 1806 Milam St., Houston, engr. CD 1/25. ENR 2/8, under Postwar Projects.

†**Tex., Sweetwater**—City enlarging, imprv. water sys., incl. installing pump. unit, replacement 2,294 ft. 8 in. main with 17 in. main and construct 375,000 gal. settling basin, $54,745. **FWA.**

Wash., Manchester—Manchester Imprvt. Dist., water sys. serving 190 homes. $43,000. Parker & Hill, Smith Tower, 2 and Yesler Way, Seattle, Zone 4, engrs.

Wash., Seattle—City, Bd. P. Wks., County-City Bldg., 3 and James Sts., Zone 4, watermains, hydrants, 37 Ave. N.E. and adjacent streets. $69,358. C. L. Wartelle, city engr.

Man., St. James (Postal Dist. Winnipeg)—Municipality, watermains and services in new sub-division of Wartime Housing, Ltd. $40,000.

N. S., Oxford—Municipality, J. I. Thompson, clk., Oxford, water extens. $20,000.

Ont., Kitchener—Municipality, well, Glasgow St. $21,000. Kitchener Water Comn., Kitchener, engr.

Ont., St. Thomas—Yarmouth Twp., H. Lawton, clk., 386 Talbot St., water sys. $60,000. F. Bell, County Bldg., engr.

Que., Coleraine—Municipality, watermains. $35,000.

BIDS ASKED

Bids Asked May 14

Ont., Port Colborne—D. M. Peart, town clk., Town Hall, laying 2,766 ft. 16 in. c.i. WW pump house to intersection Clarence and Catherine Sts. About $18,000. C. A. Grassie, Town Hall, Clarence St., engr. CD 3/2/44—ENR 3/9/44.

Bids Asked May 18

†**Alabama**—U. S. Eng., Grant St. west of Westwood St., Mobile, Zone 7, wells at Locks 2 and 3 on Tombigbee River; Locks 13, 15 and 16 on Black Warrior River. Ser. No. 01-076-45-317.

Bids Asked May 21

Pa., Aliquippa—Boro, E. W. Devitt, secy., Contr. 36, furnishing, installing chlorinator (feed visible vacuum type) and appurtenances in well house, West Aliquippa. Morris Knowles, Inc., 1312 Park Bldg., Pittsburgh, engr.

Bids Asked May 22

Ill., Chicago—City, Dpt. P. Wks., City Hall, one 80 M.G.D. turbine driven centrifugal pump for Central Park Ave. pump. sta.

Minn., Ely—City, A. O. Knutson, clk., water supply sys. addns., alterations. Over $15,000. Plans deposit $10. C. Foster, 316 Medical Arts Bldg., Duluth, engr.

Bids Asked May 23

Minn., South International Falls—Village, E. Lynch, clk., water distr. sys., involving 16,000 lin. ft. 6 in. c.i. pipe, hydrants, etc. $70,000. Plans deposit $10. W. C. Larson, Detroit Lakes, engr. CD 2/7—ENR 2/15.

Bids Asked About June 2

La., Denham Springs—Town, exten. water sys. $15,000. Barnard & Burk, Triad Bldg., Baton Rouge, engrs.

Bids Asked This Summer

Wash., Tacoma—City, City Hall, replacing 1 mi. pipeline with 52 in. steel pipe, Rhodes Lake sect. Green River Gravity line. $200,000. W. A. Kunigk, City Hall, water supt.

Bids Asked

Mass., Bellingham—Town, Bd. Selectmen, Town Hall, laying, exten. watermains, Wrenthan St. **$15,000.**

LOW BIDDERS

Ill., Chicago—City, City Hall, May 5, Div. B, vertical centrifugal pumps, from Worthington Pump & Mchy. Corp., 400 W. Madison St., **$17,204**; Div. F, piping, miscellaneous equip., from L. H. Prentice Co., 1048 W. Van Buren St., **$246,900.** CD 4/9—ENR 4/12.

★†**Okla., Oklahoma City**—E. M. Simon, city clk., City Hall, May 3, Bluff Creek Filtration plant and pump. station, Okla. 34-205, from Lippert Bros., 2036 N.W. 23 St., **$1,058,406.** Est. $1,075,000. **FWA.** CD 5/1.

Tex., Winters—City, T. A. Smith, mayor, City Hall, Apr. 27, Contr. 3, 10 in. pipeline between intake tower and pump. station, between pump. station and treatment plant, 8 in. pipeline between treatment plant and water tower and removing and placing in pipeline 7,350 ft. 16 in. c.i. pipe fittings, etc., from D. Bell, 524 W. Beauregard St., San Angelo, **$43,097**; Contr. 2, pump. station at Lake site and water treatment plant, from Balfanz Constr. Co., Abilene, **$38,350.** CD 4/13—ENR 4/19.

Wash., Chelan—R. M. Pickett, town mgr., Town Hall, Apr. 27, concrete reservoirs, 2,235 lin.ft. 8- to 12-in. c.i. pipe, from Goodfellow Bros., Wenatchee, **$77,501.** CD 4/17—ENR 4/19.

CONTRACTS AWARDED

Fla., Clearwater—Bd. Comrs. Pinellas Co., Court House, 7 mi. 16 in. c.i. pipes and valves to Boyce & Owens, Clearwater, **$189,711.** CD 3/8—ENR 3/15.

Mass., Fitchburg—City, T. E. Kennedy, supt. and engr. Water Dept., City Hall, water supply sys. extens.; imprvs., own forces. To exceed **$50,000.**

S. D., Sioux Falls—City, G. W. Elman, aud., drill well and feeder line, to Acme Concrete Co., 317 Western Surety Bldg., **$24,000.** Bids 4/9.

Vt., Norwich—Norwich Water Supply Co., Norwich, c.i. watermains, to Warner Bros. & H. Goodwin, Sunderland, Mass. Est. **$15,000.** Weston & Sampson, 14 Beacon St., Boston, Mass., engrs.

Location of ENR Correspondents

Symbols and Abbreviations Include:

† Federal Government
★ Project of $500,000 or over
ENR Engineering News-Record
CD Engineering News-Record Construction Daily

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger; water supply, earthwork, waterworks, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

Classes of Construction

(Name in order of Listing)

Water Supply
Sewers, Waste Disposal
Bridges
Streets & Roads
Earthwork, Waterways
Latin America
Public Buildings
Commercial Buildings
Industrial Buildings
Unclassified

Stages Reported

PROPOSED: (except Streets & Roads): BIDS ASKED (new announcements only). For full calendar, see also preceding issues of ENR);

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

SEWERS, WASTE DISPOSAL

PROPOSED WORK

†**Calif., Oxnard**—City, sewage treatment plant addns., alterations, and laying 2,032 ft. 12 in. sewer mains, $172,000. **FWA.**

†**Ga., Columbus**—City, sanitary trunk sewer line, incl. acquisition rights-of-way, connecting with new housing in Weracobe Creek, $76,180. **FWA.**

†**Idaho, Mountain Home**—City, City Hall, sewage treatment plant, with Imhoff tank and sludge drying bed, $25,000. **FWA.**

SEWERS, etc. (Proposed Work, Cont'd.)

Ind., Bloomington—City, City Hall, exten. sewerage sys. to R.C.A. plant. $25,000 or more.

Okla., Clinton—City Clerk, City Hall, rejected bids May 1, sewage disposal plant addns., repairs. $50,000. Will readvertise. C. E. Bretz, 1300 Colcord Bldg., Oklahoma City, engr. CD 4/18—ENR 4/19.

Ore., Klamath Falls—City, E. Ostendorf, mayor, City Hall, bond election June 22, sewerage sys. exten. $135,000. E. A. Thomas, City Hall, city engr. CD 3/28—ENR 4/5.

Man., Oakbank—Rural Municipality of Springfield, Oakbank, enlarging main drains, laterals. $50,000. J. Battenshelf, Municipal Hall, engr.

Man., St. James (Postal Dist. Winnipeg)—Municipality, sewers, services, $50,000.

Que., Coleraine—Municipality, sewerage sys. $40,000.

BIDS ASKED

Bids Asked May 17

La., Alexandria—H. T. Dulany, city secy-treas., City Hall Bldg., drainage structures on St. Ann St. between Third and Seventh Sts.

Bids Asked May 25

†Md., Hyattsville—Washington Suburban Sanitary Comn., P. Boswell, L. Shaw, and F. B. Smith, comrs., Hamilton St., Contr. 176-S, vitr. and c.i. sewers, vitr. sewer house connections. Plans deposit $5. H. R. Hall, ch. engr. Comn.; adv. ENR 5/10.

LOW BIDDERS

Calif., San Francisco—Dpt. P. Wks., City Hall, May 2, Upper Army St. sewerage sys., Sect. B, in 27, Guerrero and Army Sts. from Church St. to San Jose Ave., Spec. 19,956, from Eaton & Smith, 715 Ocean Ave., **$100,000**. CD 4/23.

Calif., San Francisco—Dpt. P. Wks., City Hall, repairing brick sewers in Army St. from Valencia to Kansas Sts. and Kansas St. from Army to Marin Sts. (Lower Islais Creek Sewerage System) Spec. 19,891, from Cement Gun Constr. Co., 24 California St., **$48,208**. J. J. Casey, City Hall, city engr.

La., New Orleans—Aviation Bd., City Hall Bldg., Apr. 27, gravity sewerage sys., pump. station, force main, sewage treatment plant, tanks and filter beds, at Moisant Airport, Kenner, near here, Prop. 5038, from Kelley-Generes Constr. Co., 134 Carondelet St., **$46,853**. Moise H. Goldstein & H. Benson, American Bank Bldg., archts.

Pa., Boothwyn—Comrs. Upper Chichester Twp., J. C. Stewart, secy., Township Hall, Apr. 9, storm sewer, from Thomas A. Reilly Co., 12 Reaney St., Chester, **$31,000**. CD 3/27—ENR 3/29.

★**†Va., Portsmouth**—City, City Hall, Apr. 25, force main sys., VA 44-141, from A. Stanley Mundy & Co., Newport News, Div. DA, **$514,867**; Div. DB, **$94,019**; Div. DC, **$247,753**. **FWA**. CD 4/2—ENR 4/5.

BRIDGES

PROPOSED WORK

Iowa—State Hy. Comn., Ames, received no bids May 1, maintenance culvert repair in intake flumes, M-4297, Div. 2, Pottawattamie Co.; rejected bids May 1, M-4297, Div. 1, Pottawattamie Co., maintenance bridge work, M-6212, Linn Co.; M-4328 Mills Co. CD 4/23—ENR 4/26.

★**Oklahoma**—State Hy. Dpt., Capitol, Oklahoma City, making plans bridge over North Canadian River, at Eufaula, McIntosh Co., $366,000; bridge over Barron Fork River, near Tahlequah Cherokee Co., $141,000; bridge over North Canadian River, west of Okemah, Okfuskee Co., $125,000; approaches to Arkansas River bridge south of Sallisaw, incl. main bridge repairs and some bank protection work, Sequoyah Co., $709,000; North Canadian River bridge repairs on U. S. 75, incl. approaches, pavement, Wetumka, Hughes Co., $50,000; bridge on U. S. 77, south of Davis, incl. overflow bridge across Washita River, with repairs to existing bridge, Davis, Murray Co., $465,000; bridge across Verdigris River near Catoosa on U. S. 66, incl. some approaches and addnl. change of line, Rogers Co., $828,000; bridge across Coal Creek, near Crowder, replacing bridge recently destroyed by flood, incl. approaches, pavement on same, Pittsburg Co., $414,000. H. E. Bailey, Capitol, Oklahoma City, engr.

Wis., Eau Claire—City, State and Eau Claire Co., steel, concrete bridge over Chippewa River, Water St. (STH 37). $390,000. C. H. Kirch, Madison, state bridge engr. CD 2/27—ENR 3/1.

Ont., Mimico (Postal Dist. Toronto)—H. A. Dixon, ch engr., 360 McGill St., Montreal, Que., removing central span, widening present structure, imprv. drainage facilities, Church St. subway. $75,000.

★**Quebec**—Dpt. P. Wks., Quebec City, reincon., steel bridge over Thousand Islands River between St. Eustache and Plage Laval. About $500,000. Baulne & Leonard, 354 St. Catherine St. E., Montreal, engrs.

BIDS ASKED

Bids Asked May 15

Iowa—State Hy. Comn., Ames, maintenance culvert repairs, incl. 2 culvert extens., flumes, M-5279-C, Appanoose Co.; 5 culvert extens., flumes, M-4321, Cass Co.; 2 culvert extens., flumes, M-5279-D, Davis Co.; 7 culvert extens, flumes, M-5279-A, Lucas Co.; 2 culvert extens., flumes, M-5279-E, Monroe Co.; 4 culvert extens., flumes, M-5279-B, Wayne Co. F. R. White, Ames, ch. engr.

Bids Asked May 16

Vt., Waterbury—Town, Clerks Office, Town Hall, 54 ft. span W-F I-Beam bridge with concrete floor and gravel approaches over Thatcher Brooks on State Aid Rd. to Colbyville, ½ mi. south of Waterbury Center. Over $25,000.

Bids Asked May 17

★**Florida**—State Rd. Dpt., F. E. Bayles, chn., Tallahassee, repairing, reconstructing North bascule leaf and pier and repairing fender, Choctwhatchee Bay Bridge, Rd. 152, S.P. Job No. 6004-904, Walton Co., $55,000; repairing, reconstructing bascule substructure and realignment bascule track span, Gulf Beach Bridge, Rd. 497, S.P. Job No. 4800-901, Escambia Co., $30,000; constructing approx. 1,867 ft., Lynn Haven Bridge, thirty-six 36 ft. concrete deck girder spans on precast concrete piles and two 70 ft., two 80 ft. and three 90 ft. spans of concrete deck on steel I-beams on concrete piers, Rd. 52, S.P. Job No. 4606-105, Bay Co., $425,000. J. H. Dowling, State Hy. engr.

Bids Asked May 31

Delaware—State Hy. Dpt., F. V. duPont, chn., Dover, Contr. 877, 20 ft. creosoted timber bridge, County Rd. 160, Kent Co. Plans deposit $2; adv. ENR 5/10.

LOW BIDDERS

Kentucky—State Hy. Dpt., Frankfort, Apr. 27, bridge flooring, rail, etc., Clay's Ferry Bridge, 0.328 mi. Fayette Co., from R. R. Dawson, Bloomfield, **$166,163**. CD 4/6—ENR 4/12.

Texas and Oklahoma—State Hy. Comn., Oklahoma City, Okla., and State Hy. Dpt., Austin, Tex., May 2, rehabilitation Red River Bridge, consisting grading, etc. 0.31 mi. roadway, etc., FAP 1024-A and Tex. Hy. 78, Okla. Hy. 299, Fannin Co., Tex. and Bryan Co., Okla., from Amis Const. Co., 1647 Exchange Ave., Oklahoma City, Okla. **$268,021**. Est. $295,000.

CONTRACTS AWARDED

New Jersey and Pennsylvania—Delaware River Joint Comn., J. K. Costello, genl. mgr., Camden Plaza, Camden, N. J., Delaware River Bridge roadway repaving, between Camden, N. J. and Phila., Pa., Contr. 21-E, to Union Paving Co., Broad and Stiles Sts., Phila., Pa., **$33,423**. Bids 4/23, awarded 4/25. CD 4/11—ENR 4/19.

Rhode Island—State of Rhode Island and Providence Plantations, Div. Roads & Bridges, State House, Providence, repairing bridges and roads, own forces. **$280,000**. CD 5/7.

Utah—State Road Comn., State Capitol, Salt Lake City, constructing 0.742 mi. underpass and approach road to Ogden Arsenal and channelizing intersection of U. S. 91 and Ogden Arsenal Rd., Davis Co., to V. Newman, McIntyre Bldg., Salt Lake City, **$191,760**. Bids 4/24. R. W. McLeese, ch. engr.

★**Va., Fredericksburg**—Richmond, Fredericksburg & Potomac R. R. Co., Broad Street Station Bldg., Richmond, Zone 20, constructing bridge, piers, etc., except superstructure, to Baltimore Contractors, 1348 Block, Baltimore, Md. Total cost **$1,000,000**. Bids 4/26. CD 4/19.

Washington—C. E. Hickey, dir. State Hy. Dpt., Olympia, rein.-con. girder bridge near Concrete, Skagit Co., to MacRae Bros., 2733 4 Ave. S., Seattle, **$41,589**. Bids 5/1. CD 4/17—ENR 4/19.

Wash., Longview—W. Vandercook, engr. and mgr. Longview Bridge Co., Longview, replacing 1,400 ft. wooden structure approach to Longview Bridge with earth and crushed rock culvert fill, to R. A. Heintz, 8101 N.E. Union Ave., Portland, Ore., **$86,261**. Bids 4/26, awarded 4/27. CD 4/6—ENR 4/12.

STREETS AND ROADS

BIDS ASKED

Bids Asked May 15

Iowa—State Hy. Comn., Ames, maintenance resurfacing 10.2 mi. Iowa 38 from Iowa 1 to U.S. 6, M-6210, Cedar Co.; 23 mi. Iowa 136 from Cascade to Luxemburg, M-6206, Dubuque and Jackson Counties; 11.2 mi. Iowa 21 from Powesshiek Co. to Iowa 92, 17 mi. Iowa 22 from Webster to Iowa 21 and from Washington Co. to Iowa 149, 0.8 mi. Iowa 108 from Delta to Iowa 92, 10.7 mi. Iowa 77 from Richland to Iowa 92, 7.6 mi. Iowa 304 from Ollie to Iowa 149, M-5294, Keokuk Co.; 12.1 mi. Iowa 14 from Lucas Co. to Knoxville, 1.8 mi. Iowa 310 from Harvey to Iowa 92, 1.1 mi. Iowa 365 from Tracy to Iowa 92, M-5295, Marion Co.; 2.5 mi. Iowa 16 from Eldon to Van Buren Co. line, 4.6 mi. Iowa 213 from Blakesburg to U.S. 34, M-5296, Wapello Co., maintenance bituminous resurfacing 79.65 mi. on extens primary roads, involving 16,370 tons aggregate, 286,930 gal. bitumen, MD-12, Dist. 1, 128 mi. on exten. primary roads, 28,881 tons aggregate, 447,052 gal. bitumen, MD-42, Dist. 4; 24.8 mi. exten. on primary roads, 6,816 tons aggregate, 100,902 gal. bitumen, MD-52, Dist. 5; 1.92 mi. Walnut Woods State Park and Lake Ahquabi State Park, 5,694 gal. bitumen, 419 tons aggregate, State Park, 1-1945; maintenance bituminous base repair on Iowa 49 from Lenox to U.S. 34, Iowa 148 from Corning to Taylor Co., Iowa 186 from Prescott to U. S. 34, M-4329, Adams Co.; 403 cu. yd. maintenance ready mix concrete on U.S. 30 from Linn Co. to Iowa 121, and U.S. 218 from U.S. 30 north 9.2 mi., M-6213, Benton Co.; 180 cu. yd. U.S. 20, from Waterloo to Cedar Falls, on U.S. 218 from Waterloo to LaPorte City, M-6214, Black Hawk Co.; 360 cu. yd. Iowa 150 from Cedar Rapids to Benton Co. line, M-6215, Linn Co.; grading, filling low areas on Highway Comn. grounds in Ames, involving 53,353 cu. yd. Class II excav., stripping, salvaging and respreading 3,461 cu. yd. top soil, T-874-B (1), Story Co., F. R. White, ch. engr.

Maryland—State Roads Comn., Baltimore, asphaltic concrete base course and wearing course 4 mi. along Baltimore-Washington Blvd. from 4 mi. south of Dead Mans Ave. to Patuxent River, at Laurel, Howard Co., asphaltic concrete base course 6 mi. along Crain Highway Contr. P-538-511, Prince Georges Co. Plans deposit $5 each.

★**Ohio**—State Hy. Dpt., Columbus, asphaltic concrete resurfacing 2.444 mi. Sect. G of SH 22, US 25, Hancock Co., $27,720: 13.724 mi. Sects. C, B and A of SH 241, US 41, Madison and Union Counties, $152,460; 3.528 mi. Sects. A and L of SH 52 and 275, US 20, Sandusky Co., $58,300; widening, asphaltic concrete resurfacing 6.977 mi. Sects. U and V-3, of SH 512, US 30-N, Hancock Co., $136,350; bituminous treatment 15.04 mi. various sections-SH Nos. 123 and 124, Adams Co., $33,522; 20.4 mi. SH Nos. 132, 130, 138, 226 and 918, Allen, Hancock and Hardin Counties, $36,300; 11.6 mi. SH Nos. 454 and 754, Ashland Co., $44,177; 47.29 mi. SH Nos. 162, 157, 161 and 554, Athens, Hocking, Meigs, Morgan and Vinton Counties, $125,990***56.31 mi. SH Nos. 130, 189, 234, 168 and 232, Auglaize, Champaign and Logan Counties, $67,520***18.55 mi. SH 175 and 806, Brown and Highland Counties, $42,380***20.8 mi. SH Nos. 603, 8 and 64, Clermont and Warren Counties, $49,686***20.45 mi. SH Nos. 469, 486, 534, 89, 832 and 958, $35,279; 39.81 mi. SH Nos. 12, 368, 384, 383, 771, 500, 715 and 89, both Columbiana and Mahoning Counties, $45,794; 34.52 mi. SH Nos. 206, 638, 644, 967, 978, 4, 267, 292 and 570, Crawford, Erie and Huron Counties, $29,966; 17.36 mi. SH Nos. 3, 646, 97, 149, 945, Erie and Huron Counties, $40,770; 43.83 mi. SH Nos. 398, 776, 93, Gallia, Meigs and Vinton Counties, $112,638; 17.65 mi. SH Nos. 473 and 472, Greene Co., $22,753; 32.74 mi. SH Nos. 484, 390 and 386, Guernsey, Morgan and Noble Counties, $94,674***38.16 mi. SH Nos. 479, 575, 411, 346, 443 and 23, Knox and Licking Counties, $61,478; 11.2 mi. SH No. 119, Scioto Co., $42,375; 43.78 mi. SH Nos. 330, 447, 13, 329, 649 and 919, Trumbull Co., $31,402; 18.71 mi. SH Nos. 222 and 915, Wyandot Co., $52,442.

Bids Asked May 17

Md., Baltimore—City, Bd. Awards, City Hal, concrete paving various streets, CC 794. Plans deposit $5.

Virginia—State Dpt. Hys., Richmond, concrete sidewalks 0.496 mi. Route 60, S.P. S-295-W2, Henrico Co. Plans deposit $5.

Bids Asked May 21

Ont., Toronto—H. D. Goode, clk., North York Twp., Willowdale, black base pavement, various streets. $30,000. G. H. Baker, Municipal Bldg., Willowdale, engr.

Bids Asked May 22

La., Monroe—City, P. A. Poag, secy.-treas., City Hall, asphalt type material resurfacing 31,000 sq. yd.

†Maryland—Office H. J. Spelman, div. engr. Pub. Roads Admin., 1440 Columbia Pike, Arlington, Va., Proj. MD-DA NY-4 E(2), access road to Indian Head Naval Reservation, Prince Georges Co. Plans deposit $10; adv. ENR 5/10.

Minnesota—State Hy. Dpt., District Office, Rochester, crush, screen, load and haul about 32,964 cu. yd. crushed rock, etc., in Rochester. $30,000. O. L. Kipp, ch. engr.

Pennsylvania—At office of J. U. Shroyer, secy. Hys., Harrisburg, rein.-con. resurfacing base course 16,255 ft. Route Legislative R-120, Sects. 4-R and 5-R, Traffic R-30, Braddock Twp., North Braddock, Chalfant and East Pittsburgh Boros; bituminous surfacing existing pavement 9,874 ft., Route Leg. Rts. 120 and 376, Tr. Rtes. 30, 22 and 885, Pittsburgh, both Allegheny Co.; 9,076 ft., Route Legislative R-23, Sect. 3-A, Leg. R-58, Sect. 2, Legislative R-105, Sect. 10, Traffic R-220, and 120, Lock Haven and Allison Twp., Clinton Co.; widening pavement with plain concrete and crushed aggregate base 14,156 ft., Route Leg. Rt. 337, Sect. R-4, Tr. Rt. 56, Armagh Boro, East Wheatfield and Brushvalley

STREETS, etc. (Bids Asked, Cont'd.)

Twps., Indiana Co.; widening pavement with plain concrete and crushed aggregate base and bituminous surfacing new base and existing pavement 8,571 ft., Route Legislative R-291, Sect. 9, Legislative R-19, Sect. 4-A, Traffic R-220, Laporte Boro, Davidson and Laporte Twps., Sullivan Co.; 47,151 ft., Route Legislative R-93, Sect. 2-R, Traffic R-62, Limestone, Watson and Pleasant Twps., Warren Co.

Washington—C. E. Hickey, dir. Hys., Olympia, manufacturing and stockpiling crushed stone surfacing and mineral aggregate on primary State Hys. 9, 14 and 21 and Secondary State Hy. 14 from end of pavement north of Shelton to Lilliwaup, Mason and Kitsap Counties; surfacing and stockpiling 5.33 mi. Secondary State Hy. 1-S, Clark and Cowlitz Counties. Plans deposit $2 each.

Bids Asked May 23

California—State Div. Hys., Sacramento, crusher run base and plant mix surfacing repairs 4.2 mi. road between Brentwood and 4 mi. southeasterly, Contra Costa Co.; crusher run base on portions and plant mix surfacing on existing roadbed and on new crusher run base repairs about 6 mi. between Warm Springs and Centerville, Alameda Co. G. T. McCoy, state hy. engr.

Louisiana—State Hy. Dpt., Baton Rouge, grading, clam shell surfacing, etc., 1.311 mi. S.P. 412-01-03, Bourg Relocation Hy., State Route 80, Terrebonne and LaFourche Parishes; grading, surfacing timber pile trestle, etc., 829-10-01, Clotilda-Greens Hy., State Route 829, LaFourche Parish.

Mass., Westwood—Town, Bd. Selectmen, grading, drainage, surfacing Burgess Ave. School, Lull and French Sts. $25,000. Plans deposit $5. E. W. Pilling, 26 Norfolk St., Dedham, engr.

Pa., Phila.—Dpt. P. Wks., City Hall Annex, asphalt and granite block, impry. Oxford Ave., south of Hartel Ave.; repaving abandoned track areas; asphalt resurfacing, asphalt repaving, curbing and footway work.

Bids Asked May 24

California—State Div. Hys., Sacramento, imported base material and road mix surfacing repairs 15.1 mi. State Hy. Route 146, between Imperial Co. line and 5.9 mi. north of Route 64, Riverside Co.; plant mix material repairing 2.1 mi. between city of Ventura and Ojai, Ventura Co.; grading, plant mix on imported material surfacing 3.1 mi. within grounds of California Institution for Men at Chino, San Bernardino Co. G. T. McCoy, state hy. engr.

Fla., Jacksonville—City, City Hall, bituminous surface treatment on shell or limerock paving 56,000 sq. yd., and 1,500 tons sheet asphalt resurfacing. W. E. Shedden, Jacksonville, engr.

Bids Asked May 31

Delaware—State Hy. Dpt. F. V. duPont, chn., Dover, Contr. 879, bituminous concrete surfacing, etc. Governor Printz Blvd., Church to 13 Sts., Wilmington, New Castle Co. Plans deposit $2; adv. ENR 5/10.

Bids Asked June 7

Fla., Jacksonville—City, City Hall, approx. 19,700 lin. ft. combination concrete curb and gutter Jacksonville streets. W. E. Shedden, Jacksonville, engr.

Bids Asked

Iowa—State Hy. Comn., Ames, rejected bids May 1, impry. 10 mi. M-2241, Butler Co.; 26.5 mi. M-5289, Lucas Co.; 16.9 mi. M-5290, Muscatine Co.; 55.7 mi. M-5292, Washington Co.; M-1214, Warren and Lucas Counties; M-1322, Jasper Co.; received no bids May 1, impry. 36.6 mi. M-5283 Appanoose Co.; 19.2 mi. M-3348, Buena Vista Co.; 15.6 mi. M-1317, Carroll Co.; 35.1 mi. M-5287, Lee Co., 4.4 mi. M-3349, Sac Co.; 35.5 mi. M-5281, Van Buren Co. CD 4/23—ENR 4/26.

LOW BIDDERS

California—State Div. Hys., Los Angeles, Apr. 26, impry. 3.3 mi. Los Angeles Co., from Schroeder & Co., 8140 Tujunga Blvd., Roscoe, $43,070. Est. $30,000. CD 4/9—ENR 4/12.

California—State Div. Hys., Sacramento, May 2, impry. 0.3 mi. Marin Co., from A. G. Raisch, 2048 Market St., San Francisco, $41,768***8.2 mi. Kern Co., from A. A. Johnson, 421 Pearl St., Laguna Beach, $68,582*** 30.2 mi. Shasta and Lassen Counties, from M. J. Ruddy & Son, 922 J St., Modesto, $195,169. CD 4/16—ENR 4/19.

Colorado—State Hy. Dpt., Denver, May 2, impry. 4.147 mi. El Paso Co., from Brown Constr. Co., 1530 E. Abriendo, Pueblo, $167,804. CD 4/23—ENR 4/26.

†Ga., Dublin—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., Apr. 30, grading roads, walks, utilities, U. S. Naval Hospital, NOY 11712, from R. A. Bowen, Macon, $122,573. CD 4/17—ENR 4/19.

Idaho—State Dpt. P. Wks., T. Matt Hally, dir. Hys., Boise, May 4, impry. 4.593 mi. State Route 13, stockpiling maintenance material, near Fenn, U. S. 95, Idaho Co., from F. H. DeAtley, Lewiston, $27,121. Est. $32,000.

★**Illinois**—State Div. Hys., Springfield, May 4, impry. 8.66 mi. Morgan Co., from I. D. Lain Co., 410 S. 5 St., Springfield, $232,172*** 5.31 mi. Marion Co., from Arrow Petroleum Co., 7419 Franklin St., Forest Park, $116,226 ***5.28 mi. Cook Co., from Rock Road Constr. Co., 5915 N. Rogers Ave., Chicago, $173,259 ***5.06 mi. Cook Co., from Leininger Constr. Co., 30 N. LaSalle St., Chicago, $131,734*** 3.03 mi. Cook Co., from Arcole-Midwest Corp., 221 N. LaSalle St., Chicago, $137,818*** 5.07 mi. Effingham Co., from L. Marsch, Mirmsonville, $96,393. CD 4/26.

★**Kentucky**—State Hy. Dpt., Frankfort, Apr. 27, from Southern Ohio Quarries Co., 150 E. Broad St., Columbus, impry. 8.851 mi. Bourbon Co., $86,793***from White Consolidated Inc., 1735 W. Fullerton St., Chicago, Ill., 22.685 mi. Clinton and Cumberland Counties, $130,775***from Fuller-Daviess Co., Covington, 2.969 mi. Mason Co., $62,666***from Feigel Constr. Corp., 403 Court Bldg., Evansville, Ind., 11.783 mi. McCracken and Marshall Counties, $80,634 ***from R. B. Tyler Co., 1446 Levering St., Louisville, 37.173 mi. Knott and Perry Counties, $130,868***from Middle West Roads Co., Noblesville, Ind., 19.97 mi. Calloway Co., $59,306; 32.334 mi. Marion and Nelson Counties, $88,144; 27.469 mi. Franklin Co., $81,312***from Eaton Asphalt Paving Co., Covington, 18.093 mi. Campbell and Kenton Counties, $110,439***from Allen & Codell Co., Winchester, 24.248 mi. Estill and Madison Counties, $88,930; 39.615 mi. Lee and Owsley Counties, $117,048***from Middle States Bituminous Corp., Ashland, Ky. and Portsmouth Sand & Gravel Co., Portsmouth, O., 18.289 mi. Boyd and Greenup Counties, $88,513. CD 4/6—ENR 4/12.

Mass., Boston—Dpt. P. Wks., City Hall, May 3, bituminous concrete pavement Ainsley St., etc., from C. Capone, Roslindale, $34,978. CD 4/26.

★**Missouri**—State Hy. Comn., Jefferson City, Apr. 27, from Trinidad Asphalt Mfg. Co., 600 S. Teresa St., St. Louis, impry. 5.85 mi. St. Charles Co., $54,733; 4.73 mi. St. Charles Co., $47,122; 10.497 mi. Warren Co., $102,264 ***from Granite Bituminous Paving Co., 3943 Duncan St., St. Louis, 18.238 mi. Franklin Co., $180,565***from Koss Constr. Co., 205 Old Colony Bldg., Des Moines, Ia., 5.287 mi. Crawford Co., $215,730; 12.496 mi. Phelps Co., $145,364***from Payne & Dolan, Inc., 114 W. Washington, Chicago, Ill., 22.02 mi. Lincoln Co., $258,640. CD 4/17—ENR 4/19.

Nebraska—State Dpt. Rd. & Irrigation, Lincoln, Apr. 26, impry. 23.6 mi. Garden and Keith Counties, and 7.3 mi. Custer and Sherman Counties, from Northwestern Eng. Co., Rapid City, S. D., $37,523 and $28,920 respectively***9 mi. Pierce and Cedar Counties, from H. W. Johnson, 538 Ins. Exch. Bldg., Sioux City, Ia., $61,406***impry. 0.6 mi road, culvert bridge, Douglas Co., from Dobson & Robinson, 823 1st Natl. Bank Bldg., Lincoln, $54,581. State Dpt. Rd. & Irrigation, Lincoln, rejected bids Apr. 26, impry. hys. Clay, Kimball, Scottsbluff, Morrill and Garden, Saline, Antelope, Butler, Lancaster and Otoe, Sheridan and Box Butte Counties. CD 4/20 and 4/23.

★**Ohio**—State Hy. Dpt., Columbus, May 1, impry. 10.78 mi. Van Wert Co., from B. L. Baumgartner & Son, 221 N. Mill St., Celina, $27,299, est. $32,050***23.04 mi. Wood and Sandusky Counties, and 6.204 mi. Huron Co., from Ohio Road Imprvt. Co., 30 E. Broad St., Columbus, $39,372 and $69,100, respectively, est. $42,065 and $77,700 respectively***20.14 mi. Hamilton and Butler Counties, from L. P. Cavett Co., 501 Shepard Ave., Lockland, $30,049, est. $32,894***20.48 mi. Fulton and Williams Counties, from P. F. Ward, Leipsic, $48,968, est. $50,259***11.62 mi. Defiance and Paulding Counties, from A. W. Burns Constr. Co., 424 Woodland Ave., Columbus, $35,166, est. $36,160***43.08 mi. Darke, Miami, Mercer and Shelby Counties, from Greenville Bituminous Products Co., Greenville, $70,033, est. $84,844***15.4 mi. Carroll and Columbiana Counties, from S. B. Hull, 331 Pillow St., Butler, Pa., $48,-044, est. $49,813***29.698 mi. Ashtabula Co., from A. J. Ronyak, Burton, $67,272, est. $68,106***6.1 mi. Williams Co., from S. E. Johnson Co., 218 Terminal Bldg., Toledo, $112,757, est. $114,200***2.323 mi. Scioto Co., from Frowine Constr. Corp., 821 Prospect St., Portsmouth, $51,811, est. $52,600***3.077 mi. Licking Co., from Hurst Constr. Co., 226 Masonic Temple, Zanesville, $44,795, est. $46,800***4.381 mi. Fairfield Co., from E. H. Brewer, P.O. Box 40, Lancaster, $71,361, est. $77,000***9.759 mi. Butler and Warren Counties, from J. R. Jurgensen, Round Bottom Rd. and N. & W.R.R., Newtown, $139,-545, est. $151,040***1.929 mi. Franklin and Madison Counties, from Union Asphalt Materials Co., Ostrander, $34,227, est. $40,000*** 4.22 mi. Butler Co., from D. S. Cisle, 808 First Natl. Bank Bldg., Hamilton, $102,476, est. $110,500. CD 4/24—ENR 4/26.

Pa., New Castle—City, City Hall, paving streets, from Kelley & Meyer Co., Dollar Bank Bldg., Youngstown, O., $35,178.

★**Texas**—State Hy. Comn., Austin, May 2, impry. 16.301 mi. Bowie and Cass Counties, from Uvalde Constr. Co., 2400 Uvalde St., Dallas, $109,282***33.052 mi. Walker Co., from Russ Mitchell, Inc., 2302 Jefferson St., Houston, $345,749***14.738 mi. Andrews Co., from E. Loyd, P.O. Box 1677, Fort Worth, $216,344***19.406 mi. Stephens Co., and 7.546 mi. Hale Co., from Gaylord Constr. Co., 806 Blodgett St., Houston, $73,166 and $108,762 respectively***9.042 mi. Hunt Co., from Texas Bithulithic Co., P.O. Box 5297, Dallas, $149,202***8.362 mi. Medina Co., from Colglazier & Hoff, Inc., 326 Sequin Rd., San Antonio, $59,779***19.212 mi. Panola, Camp, Upshur and Harrison Counties, from Austin Road Co., 1813 Clarence St., Dallas, $77,688***15.444 mi. San Jacinto and Liberty Counties, from Harrison Engrg. & Constr. Co., 4638 Mill Creek Parkway, Kansas City, Mo., $139,297. CD 4/24.

★**Texas**—State Hy. Comn., Austin, May 2, impry. 33.469 mi. Cameron, Hidalgo and Willacy Counties, from E. B. Darby & Co., Pharr, $280,302***24.086 mi. Coryell Co., from N. B. Hoffmann, Mid-Continent Bldg., Fort Worth, $35,984***9.698 mi. Eastland Co., from A. L. Bucy Co., Brownwood, $63,421*** 14.318 mi. Hidalgo and Cameron Counties, and 8.87 mi. Sabine Co., from Tulsa Rig & Reel Mfg. Co and Drake Const. Co., Muskogee, Okla., $120,132 and $32,759 respectively ***14.764 mi. Nueces Co., from H. Page, Georgetown Rd., Austin, $33,887***12.046 mi. Jasper, Newton and Orange Counties, from East Texas Const. Co. Inc., Liberty, $111,927 ***14.536 mi. Tarrant Co., from Texas Bitulithic Co., P. O. Box 5297, Dallas, $161,250*** 7.091 mi. Williamson Co., from McKown & Son, 2121 S. Congress St., Austin, $138,454. CD 4/24.

Washington—C. E. Hickey, dir. State Hy. Dpt., May 1, impry. 7.43 mi. Kitsap Co., from N. Fiorito Co., 844 W. 48 St., Seattle, Zone 7, $177,452; 7.3 mi. Clallam Co., from Peter Kiewit Sons Co., 1403 W. 45 St., Seattle, Zone 7, $79,103. CD 4/17—ENR 4/19.

Wisconsin — State Hy. Comn., Madison, May 1, impry. 15.7 mi. Vernon Co., from Otto Sanders, Inc., Mt. Horeb, $75,360; 7.6 mi. Douglas Co., from Lampert & Lampert, Inc., Oshkosh, $27,232; 22 mi. Crawford Co., from H. Turner & Son, Boscobel, $55,110; 10.8 mi. Lafayette Co., from E. Jenkins, Cobb, $26,568. CD 4/19—ENR 4/26.

CONTRACTS AWARDED

Alabama—State Hy. Dpt., Montgomery, impry. 9.223 mi. Marengo and Wilcox Counties, to Carlton Contg. Co., Albany, $122,820. Bids 4/27. CD 4/17—ENR 4/19.

Calif., South San Francisco—City, City Hall, imprv. streets in Southwood No. 3 Subdivision, to E. Keeble, Rt. 4, Box 64, Tully Rd., San Jose, $26,080. C. T. Broughton, City Hall, works engr. Bids 4/30, awarded 5/1. CD 4/20.

Ga., Cartersville—City, City Hall, resurfacing streets, to Hudson Brothers, Bolten. Est. $25,000.

Ill., Pontiac—Livingston Co., County Bldg., imprv. approx. 20 mi. county state aid roads, to H. Dodson, Pontiac, $36,872. Bids 4/20. CD 4/10—ENR 4/12.

Maryland—State Roads Comn., Baltimore, 4 mi. asphaltic concrete base course and wearing course along Baltimore-Maryland Blvd. from Dead Mans Curve toward Laurel Contr. Ho-219-2-311, Howard Co., to E. Stewart Mitchell, 3301 Ridgewood Ave., Baltimore, slag $177,741. Bids 5/1. CD 4/24—ENR 4/26.

Mass., Chicopee—City, Mayor E. Bourbeau, City Hall, concrete paving Grove St. Owner builds. $34,000. T. F. Robinson, city engr.

Minnesota—State Hy. Dpt., St. Paul, bituminous material and road-mixed bituminous wearing course Maintenance Dist. 13 to J. Roth Constr. Co., 358 West Idaho St., St. Paul, $46,847; Maintenance Dist. 14, to J. Brown & Lundin Bros., Mankato, $55,204. Bids 4/23. CD 4/4—ENR 4/12.

Minn., Pine City—Pine Co., O. W. Anderson, aud., Court House, loading, hauling gravel for roads, to F. Seegreen, Onamia, $26,812. Bids 4/3.

Mo., Kansas City—Office R. McKinley, city engr., City Hall, repairing, sealing over 90 mi. streets, to Rowen-Shaw Paving Co., 1914 Highland St., $129,978.

Montana—State Hy. Comn., Helena, crushing, stockpiling 5,000 cu. yd. stone chips and 38,000 cu. yd. Grade A crushed gravel surfacing Meagher, Broadwater, Golden Valley and Musselshell Counties, to Chas. Shannon & Son, 502 S. Washington St., Butte, $18,902, est. $56,000***crushing, stockpiling 45,000 cu. yd. Grade A top course crushed gravel surfacing, Lewis and Clark, Teton and Cascade Counties, to McLaughlin Constr. Co., Ford Bldg., Great Falls, $38,595, est. $53,000*** seal coat and crush and place crushed stone chips 21.41 mi. U. S. Hy. 91, Helena to Boulder and crush, stockpile addnl. crushed stone chips, Jefferson Co. to S. Birch & Son, Ford Bldg., Great Falls, $29,365. Grand total $116,862. Bids 4/27.

†Neb., Sidney—U. S. Eng., 909 17 St., Denver, Colo., gravel surfacing and concrete culverts, Sioux Ordnance Depot, to Northwestern Engr. Co., Rapid City, S. D., $268,238.

O., Columbus—Franklin Co., Columbus, resurfacing, widening Morse Rd. between Penn R.R. tracks and Cleveland Ave., to R. J. Dienst Co., 297 S. High St., Columbus, $29,-266. Awarded 5/1.

Pa., Marcus Hook—Boro, R. C. Rennie, secy., Boro Hall, street paving and curbing, to F. A. Canuso & Son, 804 S. 12 St., Phila., $52,000. Awarded 4/26. CD 3/20—ENR 3/22.

†S. D., Igloo—U. S. Eng., 909 17 St., Denver, Colo., sidewalks at Black Hills Ordnance

STREETS, etc. (Contracts Awarded, Cont'd.)

Plant, to M. G. Long, Billings, Mont., **$80,-447.**

Tex., Houston — City, asphalt repaving Bway., to Gulf Bitulithic Co., 2820 Polk St., **$142,895.** Bids 4/18. CD 4/24—ENR 4/26, under LB.

†Tex., McGregor—U. S. Eng., 307 Post Office Bldg., Galveston, resurfacing roads at Bluebonnet Ordnance Plant, Serial W-41-243-eng. 45-ml-17, to N. B. Hoffman, Mid-Continent Bldg., Fort Worth, approx. **$25,-000.** CD 4/30—ENR 5/3.

EARTHWORK, WATERWAYS

PROPOSED WORK

O., Hamilton—Bd. Comrs., Butler Co., Hamilton, 8,500 ft. 14 ft. drainage ditch and culverts serving site in Symmes Rd. area of proposed General Motors body factory. $30,000. F. Hammerle, Hamilton, co. engr.

BIDS ASKED

Bids Asked May 15

Iowa—State Hy. Comn., Ames, maintenance channel change Branch of Soldier River on Iowa 141 in NE¼ sect. 36-84-42, 1½ mi. east of Ute, 11,070 cu. yd. earth excav., M-3350, Monona Co. F. R. White, Ames, ch. engr.

Bids Asked May 17

†Louisiana—U. S. Eng., foot of Prytania St., New Orleans, Zone 9, removal and disposal approx. 3,450,000 cu. yd. material in maintenance dredging in 30x250 ft. channel Calcasieu River and Pass. Sol. No. 16-047-45-125, Calcasieu Parish.

Bids Asked May 21

N. J., Princeton—Dpt. Conservation & Development, C. P. Wilber, dir., State House Annex, Trenton, Zone 7, rein.-con. aqueduct on Delaware and Raritan Canal. Plans deposit $10; adv. ENR 5/10.

Bids Asked June 29

†Colorado — Bureau Reclamation, Court House, Denver, 3 vertical-shaft, centrifugal pumps, f.o.b. cars at shipping point or f.o.b. cars Granby, for installation at Granby Pump. Plant, Colorado-Big Thompson Proj., Spec. 1095. Extended date. CD 4/24—ENR 4/26.

Bids Asked

Tex., Athens—Henderson Co. Levee Dist. 3, Trinidad, levee work and flood dam restoration. Over $25,000. CD 4/11—ENR 4/19.

LOW BIDDERS

Calif., Glendale—Los Angeles Co. Flood Control Dist., 751 S. Figueroa St., Los Angeles, Zone 14, May 1, School Debris Basin for flood protection, from F. W. Case, 7121 Hayvenhurst Ave., Van Nuys, **$27,951.** CD 4/16—ENR 4/19.

Illinois—State Div. Waterways, 201 W. Monroe St., Springfield, Apr. 25, widening, deepening channel exten. from southeasterly bridge of Chicago, Milwaukee, St. Paul & Pacific R. R. immediately east of U. S. Hy. 12 in Fox Lake, through Nippersink Lake to southerly outlet of Grass Lake at intersection with State Aid Route 18 in Fox Chain-of-Lakes, Lake Co., from Pregenzer Contg. Co., Antioch, **$32,240.** T. B. Casey, 201 W. Monroe St., Springfield, ch. engr.

†Massachusetts—U. S. Eng., 31 St. James Ave., Boston, Zone 16, dredging about 95,000 cu. yd. Cape Cod Canal, No. 19-023-45-Neg-124, from Bay State Dredging & Contg. Co., 62 Condor St., East Boston, **$40,375.** Est. $40,000. CD 4/5.

†Ore., Bonneville—U. S. Eng., 608 Pittock Block, SW. 10 Ave. and Washington St., Portland, Zone 5, Apr. 28, painting spillway dam gates and powerhouse dam gates at Bonneville Dam, Spec. 68-1045, from West Coast Painters, 2012 15 Ave., Seattle 2, Wash., **$53,907.**

†Ore., Opal City—Bureau Reclamation, Bend, Apr. 30, earthwork, structures, Laterals M-30, M-31, M-32, M-34, and sublaterals, Deschutes Proj., near here, Spec. 1800-D, from United Constr. Co., 1021 Westlake Ave. N., Seattle 9, Wash., **$36,698.** CD 4/10—ENR 4/12.

CONTRACTS AWARDED

†Alabama—U. S. Eng., Grant St. west of Westwood St., Mobile, dredging 2,500,000 cu. yd. in Mobile Harbor, Mobile Co., Inv. 01-076-45-281, to McWilliams Dredging Co., 1021 Hibernia Bldg., New Orleans, La., **$73,250.** Bids 4/18. CD 4/11.

★ **Calif., Napa**—City, City Hall, Conn Creek Dam appurtenances, to T. E. Connolly, Inc., 461 Market St., San Francisco, about **$530,194.** Bids 4/24, awarded 4/30. CD 4/30—ENR 5/3, under LB.

†Florida—U. S. Eng., 575 Riverside Ave., Jacksonville, maintenance dredging in approach channel to Enterprise, St. John's River, in Benson Springs, to Robt. N. Brown, foot of Harison St., Tampa, **$20,579.** Awarded 4/18.

Pa., Phila. — City City Hall, dredging selected areas of The Schuylkill River, to Condwit & Foundation Co., 3008 Clifford St., **$23,000.** Bids 4/25. CD 4/17—ENR 4/19.

LATIN AMERICA

Brazil, Rio de Janeiro—Industria Brasileira de Automoveis S.A., Rio de Janeiro, plans plant mfg. motor cars and accessories, tractors, lorries and agricultural machinery, $150,000.

British Honduras, Belize — Municipality, plans water supply. $100,000.

Mexico, Mexico City—Construcciones Internacionales, Mexico City, takes bids in midsummer, apartment, Reforma Ave. No. 166. $700,000. Jeus Aguilar Moreno, Mexico City, archt.

Mexico, Mexico City—Envases Generales Continental, de Mexico, S.A., Lorenzo Cue, c/o Savings & Investment Bank, Mexico City, takes bids in 60 days, main building, mfg. plant. $1,000,000.

Mexico, Mexico City — Latino-Americana S.A., Mexico City, takes bids within 90 days, apartment house, Londres St. 224. $500,000. Luis Rivero del Val, Mexico City, archt.

Mexico, Mexico City—Sindicato Nacional de la Industria Azucarera y Similares, Egido, 11, Mexico, D. F., plans clinic. $410,000.

Mexico, Texaqueringa—Cia de Maderera de Durango, S.A., Texaqueringa, Durango, plans saw mill, $615,000.

PUBLIC BUILDINGS

PROPOSED WORK

★ **†Ala., Mobile—City Hospital, addns., alterations, etc. $590,000. FWA.**

†Ala., Montgomery—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., plans by C. B. Cooper, 209 Hudson Bldg., 44 dwelling units, Ala. 6-5.

★ **†Ala., Talladega**—Bd. Educ., Talladega Co., 4 school addns. $52,042. FWA.

†Ariz., Kingman — Pub. Housing Auth., NHA, 760 Market St., San Francisco, Calif., 100 family dwelling units, Ariz. 2382. $200,000.

†Ariz., Phoenix—Federal Works Agency, F St. between 18 and 19 Sts. N. W., Wash. 25, D. C., 7 classroom addn., School Dist. 6, $69,000; 6 classroom addn. and cafeteria, School Dist. 31, $53,000; 6 classroom addn. to Roosevelt School, School Dist. 66, $33,600.

†Ariz., Yuma—Pub. Housing Auth., NHA, 760 Market St., San Francisco, Calif., 110 family dwelling units, Ariz. 2383. $220,000.

†Ariz., Yuma—Pub. Housing Auth., NHA, 760 Market St., San Francisco, Calif., 25 family stop gaps, Ariz. 2372; 2 family stop gaps, Ariz. 2384; 20 single person stop gaps, Ariz. 2386.

†Ariz., Yuma—Pub. Housing Auth., NHA, 760 Market St., San Francisco, Calif., 70 family dwelling units, Ariz. 2385.

Ark., Little Rock—State, c/o C. G. Hall, Capitol Bldg., plans by H. Ray Burke, Wallace Bldg., remodeling, repairing, Capitol Bldg. and installing heating sys. $200,000.

★ **†Ark., Pine Bluff**—U. S. Eng., 300 Bway., Little Rock, addnl. bldgs. incl. addnl. facilities for loading and assembling components of mortar shells and incl. procurement and installation of equip. required in connection with providing assembly bldgs., compressor house, igloos, magazines, rework bldgs., cafeterias, guard houses, roads, railroads, and utilities, at Pine Bluff Arsenal, $1,336,040.

★ **†Calif., Alameda** and **Berkeley**—U. S. Eng., 74 New Montgomery St., San Francisco, Zone 19, addnl. bldgs. incl. chain line fence, sentry boxes, gate houses, perimeter fence reinforcement, troop housing, expan. to total capacity of 1,100 men, office bldgs., cafeteria, bridges, roads, open storage areas, addnl. housing facilities for WAC personnel, utilities, at Alameda Intransit Depot, Alameda and WAC housing area, at Berkeley. $2,749,000.

†Calif., Barstow — Pub. Housing Auth., NHA, 760 Market St., San Francisco, 15 family stop gaps, Calif. 4090.

Calif., Concord — Concord School Dist., Concord, voted bonds, school. $195,000. Dragon & Schmidts, 2068 Allston Way, Berkeley, archts. CD 4/13—ENR 4/19.

†Calif., Darwin—Pub. Housing Auth., NHA, 760 Market St., San Francisco, 10 family dwelling units, Calif. 4129.

†Calif., El Monte—City school imprvs., in Mountain View Dist. $99,000. FWA.

†Calif., Hawthorne—City school imprvs., $75,500; school imprvs., Wiseburn School District, $98,240. FWA.

†Calif., Lennox—City, war nursery for 60 children, $20,800. FWA.

†Calif., National City—City, 2 war nurseries, $31,500. FWA.

†Calif., Needles—Pub. Housing Auth., NHA, 760 Market St., San Francisco, [illegible] family dwelling units, Calif. 4100.

†Calif., Oceanside—City, 2 war nurseries, $41,900. FWA.

†Calif., Oxnard—City recreation bldg., for service men from Mira Loma Flying Academy and U. S. Naval Base, at Port Hueneme, $119,500. FWA.

†Calif., Paso Robles—City school imprvs., $39,800. FWA.

†Calif., Redondo Beach — City school imprvs. $110,000. FWA.

†Calif., Salinas—Pub. Housing Auth., NHA, 760 Market St., San Francisco, 100 family dwelling units, Calif. 4110.

†Calif., San Diego—Pub. Housing Auth., NHA, Phelan Bldg., San Francisco, 1,000 family dwelling units, Calif. 4080.

†Calif., Topanga—City school imprvs. $30,000. FWA.

†Calif., Vallejo—City, health center addns., alterations, $21,500. FWA.

†Calif., Victorville—Pub. Housing Auth., NHA, 760 Market St., San Francisco, 75 family stop-gap dwelling units, Calif. 4079. $150,000.

†Calif., West Whittier (mail Whittier)—City school imprvs. $42,000. FWA.

†Calif., Willowbrook—City school imprvs. $134,500. FWA.

★ **†Colo., Rifle**—Bureau of Mines, Laramie, Wyo., oil shale demonstration plant, $1,500,000.

★ **Conn., Southington**—Bd. Educ., City Hall, plans by E. Sibley, 83 Wall St., Norwalk, high school. $500,000.

Conn., Windsor — Town Bd. Selectmen, Town Hall, 1240 Broad St., plans by C. D. Adams, 1 Lewis St., Hartford, highway plant, incl. 1 story, 20x20 ft. office, 40x40 ft. shop, 65x100 ft. garage, tile, stone, $40,000.

†Fla., Clewiston—Hendry Co. Bd. Pub. Instruction, Clewiston, 1 story school, $35,814. FWA.

★ **†Fla., Miami**—City Mgr., City Hall, bids soon, hospital and dormitory, $500,000. FWA. A. Geiger, 730 Lincoln Lane, Miami Beach, archt. C. F. Neergaard, 41 E. 42 St., New York 17, N. Y., consult. archt.

†Ga., Aragon—Polk Co. Bd. Educ., 6-classroom school addn. $33,200. FWA.

†Ga., Dacula—Dacula Consolidated School Dist., Gwinnett Co., combined elementary-high school. $89,000. FWA.

†Ga., Forest Park—Consolidated School Dist., Clayton Co., two 5-classroom, etc. school addns. $65,000. FWA.

†Ga., Macon—City, two 7 classroom schools. $179,000. FWA.

†Ga., Marietta—City, 40-bed hospital, $325,000. FWA.

†Ga., Moultrie — Comrs. Colquitt Co., health center. $32,000. FWA.

†Ga., Toccoa—City, constructing, equipping 10-classroom high school and altering 3 schools. $245,000. FWA.

†Ill., Berkeley—School Dist. 37, Berkeley, 2 classroom addn. to Jefferson School and 4 classroom school, $92,300. FWA.

†Ill. Evergreen Park (br. Chicago)—School Dist. 124, Cook Co., 11 classroom and kindergarten addn. $153,900. FWA.

†Ill., Waukegan—School Dist. 58, Lake Co., 4 classroom school and alterations to meet increased enrollment, $25,500. FWA.

†Ill., Waukegan—Victory Hospital, addn., Waukegan, addns. to kitchen and dining room wing and to boiler and laundry wing and altering service rooms, $79,260. FWA.

†Ind., Bloomington—City hospital addns. $184,500. FWA.

†Ind., Charlestown — Federal Works Agency, 18 and F Sts. N.W., Wash. 25, D. C., 10-classroom school, $98,400.

†Ind., Gary—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago 6, Ill., plans by Shaw-Naess & Murphy, 80 E. Jackson St., Chicago, Ill., 100 dwelling units, Ind. 12207. CD 2/8—ENR 2/15.

†Ind., Griffith—Town, constructing second floor to school. $38,300. FWA.

†Ia., Des Moines—Federal Works Agency, 18 and F Sts., N.W., Wash. 25, D. C., third story addn. to nurses home at Sisters of Mercy Hospital providing living and training quarters for 60 addnl. U. S. Cadet Nurse Corps students. $60,000.

★ **†Kan., Hickok**—Columbian Carbon Co., 41 E. 42 St., New York, N. Y., 15,000,000 cu. ft. daily gas capacity Carbon Black Plant, 5 mi. south of here. $2,500,000. Defense Plant Corp. will finance.

†Kan., Pratt—Pub. Housing Auth., NHA, 1309 Electric Bldg., Fort Worth, plans by Spencer & Brink, Central Bldg., Topeka, 180 family dwelling units, Kan. 14142.

†Ky., Louisville—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago 6, Ill., plans by A. M. Strauss, Cal-Wayne Bldg., Fort Wayne, Ind., 650 family dwelling units, Ind. 12207; 200 dwelling units, Ind. 12206; 200 dwelling units, Ind. 12208. CD 2/16—ENR 3/1.

PUBLIC BLDGS. (Proposed Work, Cont'd.)

†La., **New Orleans**—U. S. Eng., 25 St. and Avenue F, Galveston, Tex., 5 detention wards at LaGarde General Hospital.

†La., **New Orleans**—U. S. Eng., 606 Santa Fe Bldg., Galveston, Tex., recreational and playground facilities (outdoor) over $25,000; evaporative, ventilation and air-conditioning sys. $25,000, at LaGarde General Hospital.

†Md., **Baltimore**—Baltimore Co., Bd. Educ., Towson, 10 classroom addn. to 1 story school at Sollers Point. $96,500. **FWA.**

†Neb., **Grand Island**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago 6, Ill., 100 single stop-gap dwelling units, Neb. 25093.

†Neb., **Kearney**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago 6, Ill., 45 family stop-gap units, Neb. 25092.

†N. M., **Alamogorda**—Pub. Housing Auth., NHA, 1411 Electric Bldg., Fort Worth 1, Tex., plans by W. C. Kruger, Sena Plaza, Santa Fe, 100 family dwelling units, N. M. 29 192.

†N. M., **Roswell**—Pub. Housing Auth., NHA, 1411 Electric Bldg., 7 and Lamar Sts., Fort Worth 1, Tex., plans by W. C. Kruger, Sena Plaza, Santa Fe, 175 family dwelling units, N. M. 29 193.

†N. Y., **Brentwood**—U. S. Eng., 120 Wall St., New York, Zone 5, bids soon barracks and chapel addn. $72,600.

†N. Y. **Voorheesville**—U. S. Eng., 120 Wall St., New York, Zone 5, bids soon prisoner of war camp. $250,000.

O., **Akron**—H. E. Simmons, pres. University of Akron, 302 Buchtel St., steam heating plant, complete with new boilers, $172,-111.

O., **Columbus**—Franklin Co., C. P. Lauderbaugh, chn. Comm., Court House, plans by Sims, Cornelius & Schooley, 2901 N. High St., new wing addn. to County Home Hospital. $250,000 incl. equip.

†O., **Dayton**—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, Zone 15, plans by R. W. Carnahan & H. C. Frank, Canton Bldg., Canton, 180 family dwelling units, Ohio 33326.

†Ore., **Coos Bay**—Pub. Housing Auth., NHA, Skinner Bldg., Fifth Ave. and Union St., Seattle 1, Wash., 50 housing units, $100,-000.

†Ore., **Eugene**—Pub. Housing Auth., NHA, Skinner Bldg., 5 and Union Sts., Seattle 1, Wash., 50 family dwelling units, Ore. 35316.

†Ore., **Reedsport** — Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle 1, Wash., 20 portable family dwelling units. $40,000.

†Ore., **Roseburg** — Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle 1, Wash., plans by V. E. Bailey, 711 S.W. Columbia St., Portland, 60 family dwelling units, Ore. 35300. CD 4/19—ENR 4/26.

†Ore., **The Dalles**—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle 1, Wash., 50 family dwelling units, $150,000.

†R. I., **Barrington**—Pub. Bldgs. Admin., 18 and F Sts. N.W., Wash. 25, D. C., brick, stone post office. $50,000.

R. I., **Providence**—City, W. J. Maguire, supt. P. Bldgs., City Hall, power distr. and fire extinguisher sys., general imprvs., Charles V. Chapin Hospital. $30,000.

†Tenn., **Clinton**—Federal Works Agency, F St. between 18 and 19 Sts. N.W., Wash. 25, D. C., modified type health center, $35,000.

†Tenn., **Knoxville**—Federal Works Agency, F St. between 18 and 19 Sts. N. W., Wash. 25, D. C., 3 classrooms adjoining Giffin School and 2 classrooms and cafeteria at Belle Morris School, $30,000.

†Tenn., **LaFollette**—Federal Works Agency, F St. between 18 and 19 Sts. N. W., Wash. 25, D. C., 4 addn. classrooms in two LaFollette, Campbell County Schools, $50,000.

†Tenn., **Maryville**—Federal Works Agency, F St. between 18 and 19 Sts. N. W., Wash. 25, D. C., 3 story, 50-patient hospital, $403,000.

Tex., Fort Worth—S. H. Bothwell, city mgr., City Hall, plans by P. M. Geren, 806½ Burnett St., 1 story, masonry fire station, at New York and Maddox Sts. $50,000.

†Tex., **Fort Worth**—U. S. Eng., 231 W. Main St., Denison, prisoner-of-war facilities at Quartermaster Depot, incl. fencing, sentry lookouts, electric lighting sys., water, sewers, etc. $50,000.

†Tex., **Garland**—Southern Aircraft Corp., Garland, plant expan. $110,000. Defense Plant Corp. will finance.

†Tex., **Odessa**—United Carbon Co., Inc., United Carbon Bldg., Charleston, W. Va. and Odessa, Tex., treater plants, No. 2, at North Cowden gas pool, over $60,000; No. 3, at Judkins Gas Pool, over $60,000. Defense Plant Corp. will finance.

†Wash., **Bangor** — Pub. Housing Auth., NHA, Skinner Bldg., 5 and Union Sts., Seattle, Zone 1, 108 single housing units. $150,000.

†Wash., **Keyport**—Pub. Housing Auth., NHA, Skinner Bldg., 5 and Union Sts., Seattle, Zone 1, 160 temporary family dwelling units. $350,000.

†Wash., **Kirkland**—School Bd., Kirkland, plans by W. A. Mallis, Lyon Bldg., 2 and James Sts., Seattle, Zone 4, 2 story addn. to Central Grade School. $60,000. **FWA.**

†Wash., **Poulsbo** — Pub. Housing Auth., NHA, Skinner Bldg., 5 and Union Sts., Seattle, Zone 1, 80 family dwelling and 72 dormitory units. $350,000.

†Wash., **Poulsbo** — School Bd., Poulsbo, plans by Naramore, Bain, Brady & Johanson, Smith Tower, 2 and Yesler Way, Seattle, Zone 4, 1 story school addn. $50,000. **FWA.** CD 5/1—ENR 5/3.

†Wash., **Silverdale**—School Bd., Silverdale, plans by B. H. Branch, 2616 E. 11 St., Bremerton, 1 story school addn. $25,000. **FWA.** CD 5/1—ENR 5/3.

†Wash., **Union Gap**—School Bd., Union Gap, plans by L. B. Bissell, Yakima, school addn. **$42,625. FWA.** CD 5/1—ENR 5/3.

†**Alaska, Fairbanks**—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle 1, Wash., cancelled bids to have been opened May 16, 10 housing units, Alaska 50077. $75,000. Naramore, Bain, Brady & Johanson, Smith Tower, 2 and Yesler Sts., Seattle 4, Wash., archts. CD 5/1—ENR 5/3.

†**Alaska, Healy**—Alaska Railway, Dpt. Interior, Anchorage, rejected bids April 20, 2 story depot, hotel, residences, power plant, $350,000. Will readvertise. CD 4/30, under LB.

★**B. C., Penticton**—Municipality, school bldgs. $500,000.

★**B. C., Victoria**—Provincial Govt. of British Columbia, Victoria, T. B. Sanatorium. About $750,000.

★**Man., Fort Garry (Postal Dist. Winnipeg)**—Municipality, plans 325 modern houses. $2,000,000.

★**Ont., Toronto**—Wartime Housing Ltd., 55 York St., 620 brick permanent dwellings, concrete block fdns. About $2,800,000.

★**Que., Hull**—Wartime Housing Ltd., 55 York St., Toronto, Ont. 400 addnl houses. $1,500,000.

Que., Mount Royal (Postal Dist. Montreal)—Municipality, bids soon municipal work shops. $50,000. Luke & Little, 1410 Guy St., Montreal, archts. W. MacNell, Town Hall, engr. CD 1/25.

Que., Quebec West—City plans hospital. $200,000.

Que., Riviere du Loup—La Communaute des S. S. de Charite de la Providence, Riviere du Loup, plans Hospital St. Joseph de Precieux Sang. $250,000.

BIDS ASKED

Bids Asked May 15

†**Conn., Hartford**—City, Bd. Contr. & Supply, 550 Main St., repairing Municipal Home and Nursery, Conn. 6-104. $70,000. **FWA.** Architectural Bureau, 550 Main St., archts.

†**Ill., Galesburg**—Cottage Hospital, Galesburg, 2 story nurses home addn. Est. $150,000. **FWA.**

Bids Asked May 16

†**S. C., Charleston**—Federal Works Agency, Charleston, electric work extens., addns., at Post Office and Court House.

Ont., London—Dpt. Veterans Affairs, 21 Lombard St., Toronto, Zone 1, 54 houses for veterans in London North, London Twp., London South, City of London, Westminster Twp., Middlesex Co. About $215,000.

Ont., Sandwich—Dpt. Veterans Affairs, 21 Lombard St., Toronto, Zone 1, 100 houses for veterans on Lot 4 and parts of Lots 3 and parts of Lots 3 and 5, Concession 5, Sandwich West Twp. About $400,000.

Bids Asked May 17

★**Ala., Mobile**—City, remodeling hospital. $500,000. C. Van Antwerp, 216½ S. Francis St., archt. CD 3/15—ENR 3/22.

Bids Asked May 18

†**Pa., Phila.**—Phila. Housing Auth., 21 St. and Parkway, installing concrete walks, ramps, steps and catch basins along Robert Ave., erecting stone retaining walls along Berkeley Dr. at Abbottsford Homes; drainage exterior areaways at Bartram Village.

Bids Asked May 22

†**Alaska, Anchorage**—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle 1, Wash., 40 housing units, Proj. 50084. $300,000. Extended date. Naramore, Bain, Brady & Johanson, Smith Tower, 2 and Yesler Sts., Seattle 4, Wash., archts. CD 5/1—ENR 5/3.

†**Alaska, Fairbanks**—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union Sts., Seattle 1, Wash., 30 family dwelling units, Alaska. 50082. $250,000. Extended date. Naramore, Bain, Brady & Johanson, Smith Tower, 2 Ave. and Yesler Sts., Seattle 4, Wash., archts. CD 5/1—ENR 5/3.

Bids Asked June 12

†**N. Y., New York**—Veterans Admin., Vermont Ave. between H and I Sts., N.W., Wash. 25, D. C., Laundry Bldg. 7 addns., alterations, No. 2290. CD 2/23—ENR 3/1.

Bids Asked June 27

†**N. C., Wilson**—Federal Works Agency, Candler Bldg., Atlanta, Ga., roof repairs and exterior painting at U. S. Post Office and Court House.

Bids Asked

Mass., Chatham—Town, Bd. Selectmen, Town Hall, two 1 story, 25x100 ft. fish packing plant bldgs., Barcliff Ave. $50,000. Edward Sears Read & Assoc., archts., and H. E. Bailey, engr., both 177 State St., Boston. CD 3/23—ENR 3/29.

†**Mass., Waltham**—U. S. Eng., 31 St. James Ave., Boston, Zone 16 (selected bidders), recreation bldg., etc., No. 19-023-45-Neg-123. $10,000.

†**Tex., Clements**—Jefferson Lake, Sulphur Co., Clements, carbon black mfg. plant. $360,454. Defense Plant Corp. will finance. CD 4/6—ENR 4/12.

†**Tex., Foster Field (br. Victoria)**—United Carbon Co., Foster Field, carbon black or desulphurization plant unit, $139,000. Defense Plant Corp. will finance.

LOW BIDDERS

†**Ala., Montgomery**—Housing Auth. of Montgomery, 528 Bell St., six 2 story bldgs., containing 44 units, Patterson Courts addn., for NHA, from Bear Lumber Co., 400 Lee St., Montgomery, **$165,000.** CD 4/16—ENR 4/19.

†**Calif., El Centro**—Pub. Housing Auth., NHA, 816 W. 5 St., Los Angeles, Apr. 27, 152 family war dwelling units, Calif. 4028, from Shumaker & Evans, 4007 W. 7 St., Los Angeles, **$393,199.** CD 3/27—ENR 3/29.

†**Calif., Hunters Point**—Pub. Housing Auth., NHA, 760 Market St., San Francisco, May 3, 250 temporary family dwelling units, Calif. 4024, from T. G. Meyer, 200 Quint St., San Francisco, **$494,543.** CD 4/19.

†**Calif., Hunters Point**—Pub. Housing Auth., NHA, 760 Market St., San Francisco, 104 portable family dwelling units, Area K, Calif. 4138 (formerly Calif. 4980), from Erbentraut & Summers, 446 6th St., San Francisco, **$198,000.** Merchant, Sharpe & Starks, 57 Post St., San Francisco, archts. CD 5/1.

†**Calif., Vacaville and Fairfield**—Pub. Housing Auth., NHA, 760 Market St., San Francisco, 156 family dwelling units at Fairfield, Calif. 4983-N, and 44 family dwelling units, at Vacaville, Calif. 4058, from C. T. Lindsay, 824 Taraval St., San Francisco, **$178,347.** T. F. Pfleuger, 580 Market St., San Francisco, archt.

★†**D. C., Anacostia**—Pub. Housing Auth., NHA, Longfellow Bldg., 1201 Connecticut Ave. N.W., Wash., Zone 25 May 1, 300 permanent family units, Stanton Rd. and Alabama Ave., D. C. 1-6, from Haris Constr. Corp., 26 Court St., Brooklyn 2, N. Y., **$1,470,500.** CD 4/23—ENR 4/26.

†**D. C., Wash.**—U. S. Eng., First and Douglas Sts. N.W., Zone 25, May 3, ordnance laboratory at Bureau of Standards, from Wm. P. Lipscomb Co., Inc., Woodward Bldg., **$375,900.**

Wash., Longview—J. F. McCarthy, atty for Port of Longview, National Bank Bldg., Apr. 27, excav. and piling for grain elevator addn., from Hart Constr. Co., 3536 E. 11 St., Tacoma, **$45,622.** CD 4/16—ENR 4/19.

Wash., Longview — Port of Longview, Olympia, May 1, grain elevator addn., with 12 storage bins, from Henry George & Son, Hutton Bldg., Spokane, **$208,897.** Est. $200,-000. CD 4/16—ENR 4/19.

CONTRACTS AWARDED

★†**Calif., El Centro, Holtville and Salton Sea**—Pub. Housing Auth., NHA, 760 Market St., San Francisco, 152 war dwelling units, at El Centro, Calif. 4028-N, 48 war dwelling units, at Holtville, Calif. 4046-N, 8 war dwelling units, at Salton Sea, Calif. 4047-N, to Shumaker & Evans, 4007 W. 6 St., Los Angeles, **$560,049.** CD 3/27, 5/3—ENR 3/29.

†**Ga., Blakely**—Blakely Union School Dist., Blakely, school, Ga. 9-343-N, to Daniel Constr. Co., 822 7 Ave. S., Birmingham, Ala., **$187,900. FWA.** Bids 4/27. CD 4/11—ENR 4/19.

★†**Ga., Dublin**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., 400 bed expansion, 6 ward bldgs. with connecting corridors, cold storage bldg., and animal house, Spec. 16008, NOY 11711, to Beers Constr. Co., 70 Ellis St. N.E., Atlanta, **$1,474,745.** CD 4/20—ENR 4/26, under LB.

†**Ind., Coalmont**—U. S. Eng., P.O. Box 59, 612 Federal Bldg., Louisville 1, Ky., construction, rehabilitation bldgs., plant of U. S. Powder Co., Contr. W-15-029-eng-809, to Ferro Concrete Constr. Co., 203 W. 3 St., Cincinnati, O., **$150,000.**

†**Kansas**—U. S. Eng., Davidson Bldg., 10 E. 17 St., Kansas City 8, Mo., bldgs., Sunflower Ordnance Works, Contr. W-23-028-eng-794, to Peter Kiewit Sons' Co., 1024 Omaha Natl. Bank Bldg., Omaha, Neb., **$221,234.**

★†**Okla., McAlester**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., ordnance plant, NOY 11084, to J. A. Terteling & Sons, Inc., Box 1428, Boise, Idaho, **$7,300,430.** Bids 3/27, awarded 5/2. CD 3/29—ENR 4/5, under LB.

PUBLIC Bldgs. (Contracts Awarded, Cont'd.)

★**†Tenn., Chattanooga**—Mohawk Rubber Co., 1235 2 St., Akron, O., rubber tire factory, to Clemmer Constr. Co., 134 E. Thornton St., Akron, O., approx. **$2,250,000.** Defense Plant Corp. will finance. Robert & Co., Bona Allen Bldg., Atlanta, Ga., engrs. (**Correction**—financing). CD 4/16—ENR 4/19, under Industrial.

†Tex., Fort Sam Houston—U. S. Eng., Fort Sam Houston, orthopedic, occupational therapy and branch shop bldg., Ser. W-41, 154-45-119, to C. L. Browning, Jr., 812 Insurance Bldg., San Antonio. **$48,847.** CD 4/30.

†Tex., San Antonio—Reconstruction Finance Corp., 514 Alamo Bank Bldg., two 126x400 ft., storage warehouses, to H. H. Moeller, Box 35, Grayson St. Station, San Antonio, **$116,654.** CD 4/30—ENR 5/3.

†Wash., Pasco—Pub. Housing Auth., NHA, Skinner Bldg., 5 and Union Sts., Seattle, Zone 1, 115 family dwelling units, Wash. 45318-N, to B. H. Sheldon, W. 1405 1 Ave., Spokane, **$213,000.** Bids 4/26. CD 4/17—ENR 4/19.

†Wash., Puget Sound—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., addnl. barracks and mess hall exten., Naval Ammunition Depot, NOY 11559, to John H. Sellen Constr. Co., 228 9 Ave. N., Seattle, Zone 9, **$104,600.**

★**†Wyo., Laramie**—Bureau Mines, Dpt. Interior, Laramie, 3 story, 45x160 ft., main sect., and two 1 story, 45x83 ft. wings oil shale research laboratory, stone, rein.-con., to E. C. Nickel, 1401 Ranch Rd., Arcadia, Calif., **$534,000.** Bids 2/21. CD 2/27—ENR 3/1, under LB.

COMMERCIAL BUILDINGS

PROPOSED WORK

Ga., Columbus—St. Mark Methodist Church, Rev. N. Anthony, pastor, 1605 3 Ave., plans by Wenner & Fink, 1701 Arch St., Phila., Pa., church. $250,000.

★**Ore., Salem**—Deaconess Hospital, Salem, plans by W. E. Kelley, 808 S. E. 28 St., Portland, hospital. $500,000. Seeking FWA funds. CD 6/21—ENR 6/29.

★**Pa., Ephrata**—Ephrata Community Hospital, I. E. Fasnacht, pres. Bd. Directors, plans by W. H. Lee, 1505 Race St., Phila., hospital and nurses home. $250,000. C. F. Neergaard, hospital consultant, 41 E. 42 St., New York, N. Y. Eggly Engineers, 1500 Walnut St., Phila., engr. plumbing, heating and electrical work. C. H. Wolf, 112 S. 16 St., Phila., structural engr. CD 5/8/44—ENR 5/11/44.

Pa., Franklin—V. A. Rigamount, archt., 5471 Coral St., Pittsburgh, soon lets general contract 2 story, bsmnt., 40x60x300 ft., terra cotta, brick theatre, for Keyton Entertainment Co., Franklin. $150,000. CD 4/17—ENR 4/19.

Pa., Lancaster—Armstrong Cork Co., Liberty and Mary Sts., plans by W. H. Lee, 1505 Race St., Phila., office and auditorium. C. H. Wolf, 112 S. 16 St., Phila., structural engr.

Pa., Pittsburgh—J. Krinic, P. O. Box 5832, Millvale, thirty-eight 2 story, bsmnt., brick residences, Stanton Ave. **$304,000.**

★**Pa., Pottstown**—A. Potter, Pottstown, c/o J. F. Hunsicker, atty., 118 S. 20 St., Phila., plans completed by R. N. Neely, 10 S. 18 St., Phila., 102 single family unit housing. $600,000.

Tex., Houston—N. H. Mitchell & P. R. Plumb, 4522 Griggs Rd., plans by H. D. Frankfurt, 420 Union Natl. Bldg., 2 story, hotel and community center, incl. restaurant, gift shop, barber shop, etc., Old Spanish Trail and Almeda Rd. $300,000.

★**Wash., Seattle**—Balch-Setzer, Inc., 6300 48 Ave. N.E., Zone 5, plans by Thomas, Grainger & Thomas, Arcade Bldg., 2 and Union Sts., Zone 1, eighty 1½ story, bsmnt., frame houses in area between 25 and 30 Aves. N.E., E. 70 and 75 Sts. $500,000. A. Hitchings, Arctic Bldg., 3 and Cherry Sts., Zone 4, engr.

Ont., Kingston—Drever & Smith, archts., 81 Brock St., soon lets contract 4 story, bsmnt., 55x140 ft., tile, stone, steel, concrete hospital wing addn., concrete fdn., for Kingston General Hospital, Bd. Governors, E. Davis, chn. $300,000. CD 1/30—ENR 2/8.

BIDS ASKED

Bids Asked About May 26

Pa., Phila.—Temple Baptist Church, c/o Rev. Dr. A. Ruch, pastor, and W. Lloyd Betts, chn. Bldg. Comn., rebuilding 1 story, stone church. $150,000. Wenner & Fink, 1701 Arch St., archts. CD 1/24—ENR 2/1.

Bids Asked

Pa., Lemoyne—Wenner & Fink, archts., 1701 Arch St., Phila., church and Sunday school, for Trinity Lutheran Church, Rev. E. Snively Frey, pastor and chn. Bldg. Comn., 517 Hummel Ave., $150,000. CD 4/11—ENR 4/19.

CONTRACTS AWARDED

California—Owner, c/o contractor, 50 G.I. residences in Burbank, North Hollywood, and Van Nuys, to Thoreson Constr. Co., 6305 Yucca St., Los Angeles, **$250,000.**

Pa., Phila.—Geo. P. Pilling & Son Co., 23 and Arch Sts., commercial bldg., to J. R. Farrell, 4422 Market St., **$150,000.** Awarded 4/20. Widdicombe Engineering Co., 1700 Sansom St., engr.

Alaska, Juneau—Goldstein Improvement Co., Juneau, reconstructing 5 story, bsmnt., rein.-con. Goldstein Bldg., to Alaska Constr. Co., Baranof Hotel Bldg. Est. **$250,000.** CD 4/27—ENR 5/3.

INDUSTRIAL BUILDINGS

PROPOSED WORK

Calif., Alhambra—FACTORY, etc.—Clary Multiplier Corp., Palm and Mission Sts., plans by Risley & Gould, 220 S. Westmoreland St., 2 story, 60x123 reinforced brick factory and office bldg. $50,000. Hillman & Nowell, Architects Bldg., Los Angeles, engrs.

Conn., Bridgeport—PLANT, etc.—Standard Column Co., 1575 Railroad Ave., plans completed by H. E. Koerner, 83 Fairfield Ave., 1 and 2 story, 50x150 ft., concrete and cinder block plant and 1 story, 78x90 ft. storage unit, $55,000.

Conn., Middletown—SERVICE STATION, etc.—F. R. Monroe, 214 Ledyard St., New London, completing plans by L. M. Young, 179 Bway., Norwich, brick, steel, concrete automobile service station, incl. showroom and offices, repairing facilities, Broad St. $40,000.

Conn., Newington—TRUCK TERMINAL—Hartford Transportation Co., 1 Wawarme Ave., Hartford, plans by Kane & Fairchild, 49 Pearl St., Hartford, 1 story, 150x150 ft. truck terminal, Berlin Turnpike. $100,000. CD 5/2.

Conn., New London — GARAGE — Sortor Chevrolet Co., 90 Garfield Ave., plans by Schofield & Lindsay, 309 State St., brick, steel, concrete service and sales garage, Colman and Broad Sts. Over $40,000. CD 9/20—ENR 9/22.

Del., Wilmington—WHEEL SHOP, etc.—Pennsylvania R.R., J. L. Grassitt, ch. engr., Broad St. Station Bldg., 1617 Pennsylvania Blvd., Phila. 4, Pa., bids soon wheel shop and cafeteria. Ballinger Co., 105 S. 12 St., Phila., Pa., archt. CD 3/21—ENR 3/29.

Idaho, Kellogg—ORE MILL—Bunker Hill and Sullivan Mining & Concentration Co., W. T. Simmons, secy., Kellogg, 250-ton ore mill. $200,000.

Ill., Belvidere—PLANT—Belvidere Distilling Co., 310 Columbia Ave., bids soon, feed recovery plant. United Engineers & Constructors, Inc., 1401 Arch St., Phila., Pa., engrs.

Ill., Carbondale—CREAMERY—Producers Creamery, Carbondale, soon lets contract 1 story, brick, boiler house for creamery. $90,000 with boilers. H. K. Graf, 2825 Olive St., St. Louis 3, Mo., archt.

Ind., Fort Wayne—PLANT—Bowser & Co., E. Wayne St., plant addn. $50,000 or more with equip.

Ia., Muscatine—WAREHOUSE—Skidmore, Owings & Merrill, archts., 100 W. Monroe, St., Chicago, Ill., soon lets contract 1 story, 200x250 ft., brick, concrete, steel warehouse, for H. J. Heinz Co., 342 N. Western Ave., Chicago Ill.

La., North Baton Rouge—PLANT BLDG.—Standard Oil Co. (Ethyl Plant), North Baton Rouge, plans by Bodman & Murrell, Reymond Bldg., Baton Rouge, 2 story, 80x158 ft., brick, rein.-con., etc. cafeteria bldg., incl. air conditioning.

Md., Baltimore—PLANT—Delvale Dairies, Inc., 2030 Harford Ave., sketches completed by Eubank & Caldwell, Inc., Boxley Bldg., Roanoke, Va., 3 story, 76x111 ft. and 1 story, 60x111 ft. rein.-con., brick garage. $125,000.

Md., Frederick — FACTORY — The Eveready Co., East St., factory addns. $150,000.

Mass., Pittsfield—PLANT—General Electric Co., 1 Plastics Ave., soon lets contract 1 story, concrete, steel plastics mfg. plant. Over $40,000.

Mass., Rockland—GRAIN ELEVATOR—Albert Culver Co., 176 Union St., rebuilding grain elevator. To exceed $40,000.

Mass., West Springfield—TRUCK TERMINAL—Adley Express Co., 216 Crown St., New Haven, Conn., preparing plans 1 story, 100x150 ft., brick, steel, concrete truck terminal. $80,000. L. F. Caproni, 1221 Chapel St., New Haven, Conn., engr.

Mass., West Springfield — TERMINAL — Associated Transport, Inc., 325 Memorial Ave., plans by A. J. Carson, 325 Memorial Ave., rein.-con. freight terminal and office bldg. addn. $40,000.

Mo., St. Louis—FACTORY—Cupples Mix Co., J. K. Wallace, pres. and genl. mgr., 401 S. 7 St., Zone 2, rubber tire, etc. mfg. factory, on 8 acre tract, Vandeventer and McRee Aves. $100,000 plus with equip.

N. J., Salem—WAREHOUSE—H. J. Heinz Co., 1062 Progress St., Pittsburgh, Pa., soon lets contract 1 story brick, steel warehouse, $75,000. Skidmore, Owings & Merrill, 5 E. 57 St., New York, N. Y., archts.

N. Y., Brooklyn—GENERATOR HOUSE—Brooklyn Union Gas Co., 176 Remsen St., bids soon altering gas generator house, 287 Maspeth Ave. $260,000. United Engineers & Constructors, Inc., 1401 Arch St., Phila., Pa., archt.

N. C., Charlotte—PLANT—J. R. Triece, Kannapolis, 1 story, concrete block plant bldg., and several curing rooms, 1800 N. Tryon St. $50,000.

O., Ashtabula—FACTORY—Samuel Hershberg., pres. Hershberg Products Co., Ashtabula, rubber products factory, on 5-acre site. $75,000-$100,000.

★**Ore., Garibaldi** — SAWMILL — Oregon-Wash. Plywood Co., H. T. Nicholai, pres., 1549 Dock St., Tacoma, Wash., sawmill and other bldgs. for plywood plant. $750,000. F. W. Horstkotte, American Bank Bldg., Portland, engr.

Ore., Myrtle Creek — SAWMILL — Myrtle Creek Lumber Co., Myrtle Creek, rebuilding sawmill, $75,000.

Pa., Phila.—PLANT—Pennsylvania Range Boiler Co., C. Kaufman, vice pres., 24 St. and Washington Ave., rebuilding mfg. plant. **$200,000-$300,000.**

R. I., Bristol—PLANT—Bristol Mfg. Corp., Buttonwood Ave., plans by Linwood & Gardiner, 49 Hanover St., Providence, 2 story, 40x100 ft., cinder block plant addn., incl. offices. $40,000.

Tex., Brownsville — PLANT—Pan-American Freezers, Eagle Pass and Brownsville, addnl. Quick Freezing Unit 3, $75,000.

Tex., Brownsville—PLANT—Brownsville Ice Co., Brownsville, ice plant unit. $40,000.

Tex., Houston—REPAIR SHOP, etc.—R. P. Farnsworth & Co., Inc., Box 74, plans by Hedrick & Lindsley, 811 S. Standard Bldg., 69x114 ft., steel frame with corrugated asbestos siding repair shop and garage. $40,000.

Tex., Houston—PLANT—Gregory-Robinson-Speas, Paris, 90x125 ft., vinegar plant, steel frame. $45,000.

Tex., Houston—WAREHOUSE—Lockwood Wholesale Realty Co., 600 Lockwood St., 128x192 ft., masonry warehouse unit. $100,000.

Tex., McAllen—PLANT—Brido Christensen, c/o Rio Sun Co., 2422 Highway, McAllen, 1 story, 130x250 ft., rein.-con., brick, steel processing plant, etc. $50,000.

Tex., Mission—PLANT—Mission Fruit & Vegetable Co., Mission, 1 and 2 story, brick, concrete, metal, etc. packing plant reconstruction, addn. $40,000.

Wis., Greenfield (P.O. Milwaukee)—FACTORY—Milcor Steel Co., S. 41 and Burnham Sts., Zone 4, 1 story, 17x800 ft., brick, factory addn., concrete fdn. Lawrence E. Peterson & Associates, 312 E. Wisconsin St., Milwaukee, Zone 2, engrs.

Wis., Greenfield (P.O. Milwaukee) — WAREHOUSE—Owner, c/o V. K. Boynton, Engr., 744 N. 4 St., Milwaukee, Zone 4, 1 story, 70x160 ft. steel, concrete block warehouse and office bldg., rein.-con. fdn.

Wis., Milwaukee—PLANT—Gibbs Steel Co., 338 S. 17 St., Zone 4, plans by F. Scott, 724 E. Mason St., Zone 2, 1 story, 84x132 ft., brick, steel, plant addn., concrete fdn.

Wis., Waukesha—GARAGE—Owner, c/o J. Menge, Jr., archt., 108 W. Wells St., Milwaukee, Zone 3, 1 story, bsmnt., 80x115 ft., concrete block, steel truss, garage, concrete block fdn.

Wis., Wausau—GARAGE—Wausau Elec. & Battery Co., Inc., 114 3 St., plans by G. Foster, Jr., 327 3 St., 1 story, part bsmnt., 60x166 ft., brick, service garage, concrete fdn.

Ont., North Bay—PLANT—M. E. Cuff, Capital Theatre Bldg., plans cold storage locker plant. $45,000.

Ont., Port Elgin—PLANT—P.E. "Times" Inc., 7 Goderich St., printing, etc. plant $50,000.

Ont., Red Lake—DIAMOND DRILLING—San Pedro Mining Corp., Red Lake, surface work and diamond drilling. $60,000. M. P. MacDonald, c/o owner, engr.

Ont., Sarnia—PLANT—Dow Chemical Co. of Canada, Ltd., G. Hemmerick, mgr., 10 Highway, plant. About $40,000.

Ont., Seaforth—PLANT—Duncan Shoe Co. Inc., Seaforth, plant addn. $40,000.

Ont., Sturgeon Falls—PLANT—W. H. Evoy, 33 Lisgar St., Sudbury, cold storage locker plant. $45,000.

Ont., Toronto—PLANT—Alica Chemicals Ltd., c/o A. J. Holmes, 100 W. Adelaide St., mfg., compounding, embalming, disinfecting and cosmetic chemicals, etc. plant. $40,000.

Ont., Toronto—WORKSHOP—A. E. Furnival, 30 Pryor Ave., plans by J. B. Parkin, 96 Bloor St. W., workshop. About $45,000.

Ont., Toronto — FACTORY — N. E. Kelk, 60 Garfield St., plans by R. W. Sheriff, 1 Macauley Ave., 60x200 ft., concrete block steel factory, Davenport. Rd. $60,000.

★**Ont., Toronto**—PUBLISHING PLANT—MacLean Publishing Co., Ltd., 481 University Ave., about 275 x 400 ft. publishing plant, in Glendora-Avondale, Dist. of North York. About $380,000.

Ont., Toronto — PLANT — Pepper's Automatic Stokers Ltd., c/o I. C. Harries, 24 Toronto St., stokers, furnaces, oil burners, etc. mfg. plant. $40,000.

Ont., Toronto—FACTORY—Presto Electric Co. of Canada, Ltd., 10 Adelaide St. E., factory, Geary Ave. $45,000.

INDUSTRIAL BLDGS. (Proposed Work, Cont'd.)

Ont., Toronto — PLANT — Squirt Co. of Canada Ltd., c/o J. N. Fitzgerald, 328 Spadina Ave., beverages, fruit syrups, etc. mfg. plant. $50,000.

Ont., Waterloo—FACTORY—Ontario Die Co. Ltd., 88 King St. S., preparing plans brick factory, cement fdn. $45,000.

★**Ont., Weston**—PLANT—George Weston, Ltd., 134 Peter St., Toronto, 1 story, 150x700 ft. biscuit mfg. plant, brick, steel, Lawrence Ave. and Jane St. About $750,000.

Ont., Windsor — PLANT — Limex Canada Ltd., c/o C. J. Clark, K.C., Windsor, mfg. plant. $40,000.

Que., Bromptonville—PLANT—Brompton Pulp & Paper Co., Ltd., Bromptonville, plant. imprvs., extens. Over $50,000.

Que., Fort Coulonge—PLANT—Coulonge Lumber Co., Ltd., Fort Coulonge, woodworking plant. $40,000.

Que, Montreal—MILLS—Steel Co. of Canada, Notre Dame St. W., cold reducing mills.

Que., Montreal East (Postal Dist. Montreal)—PLANT—J. Dickinson, 320 Canada Cement Bldg., Montreal, soon lets contract plant exten. for B. A. Oil Co., Ltd., 320 Canada Cement Bldg., Montreal.

Que., Outardes Falls—PLANT—Quebec North Shore Paper Co. Ltd., 680 Sherbrooke St. W., Montreal, plant exten. $60,000.

Que., St. Anselme — COLD STORAGE PLANT—Cooperative Assn., St. Anselme, cold storage and packing plant. $50,000.

Que., Victoriaville—ABATTOIR—Association of Co-Operatives, Victoriaville, fowl abattoir. $50,000.

Sask., Regina—COLD STORAGE PLANT—Sask. Cooperative Creameries, Ltd., Halifax St., cold storage, 1324 Halifax St. About $45,000.

Sask., Rosthern — FLOUR MILL, etc. — Hague Flour Mills, Rosthern, flour mill, warehouse, grain elevator. $50,000.

BIDS ASKED

Mass., Roxbury (Sta. Boston)—TRUCK TERMINAL, etc.—T. F. Galvin, 909 Massachusetts Ave., truck terminal, 60 x 160 ft. loading dock, 40 x 80 ft. service station, concrete, brick, 903 Massachusetts Ave. To exceed $40,000, incl. equip. L. Fink, 131 State St., Boston, archt. CD 1/3—ENR 1/11.

N. J., Phillipsburg—GARAGE—Delaware River Coach Lines c/o A. J. Ferraro, New Brunswick Ave., and Alpha Rd., bus garage. $50,000. R. S. Nixon, 36 Shafer Ave., archt.

CONTRACTS AWARDED

Ala., Sylacauga—PLANT—Widemire Dairy, Sylacauga, milk storage and ice cream plant, own forces. **$150,000.**

Calif., Oakland — WAREHOUSE — George Borrman Steel Co., 25 8 St., 1 story, steel warehouse addn., to Christenson & Lyons, 3454 Harlan St. Est. **$52,000.** Corlett & Anderson, 1801 Bank of America Bldg., archts.

Calif., San Francisco — WHOLESALE — Bethlehem Steel Co., 20 and Illinois Sts., steel frame for wholesale bldg. Owner builds. **$250,000.** H. A. Shumer, Box 444, Alameda, engr.

Calif., Sunnyvale—PLANT—Freemont & Cupertino-Saratoga Cooperative Dryer Inc., Sunnyvale, dehydrator plant, to L. E. Gibson Constr. Co., 4806 Macdonald Ave., Richmond. Est. **$100,000.**

Conn., North Haven—FACTORY—American Crucible Co., Shelton, design and construction brick, steel factory, Washington Ave., to Austin Co., 19 Rector St., New York, N. Y. Est. over **$40,000.** CD 4/23—ENR 4/26.

Ill., Chicago—MANUFACTURING—Bauer & Black, 2500 S. Dearborn St., general contract 1 and 3 story, brick, concrete, steel, glass block, mfg. bldg. addns., to Avery Brundage Co., 11 S. LaSalle St. Est. over **$40,000.** CD 3/7—ENR 3/15.

Ill., Tuscola—GRAIN ELEVATOR—Tuscola Cooperative Grain Co., H. Carrell, mgr., Tuscola, 50,000 bu. capacity, 118 ft. grain elevator, rein.-con., steel, to Einkenberry Constr. Co., Bloomington, est. **$50,000.**

Ind., Frankfort—PLANT—Swift & Co., U. S. Yards, Chicago, Ill., six 1, 2 and 3 story, brick, concrete, steel bldgs. soybean processing plant, to A. L. Jackson, 161 E. Erie St., Chicago, Ill. CD 4/20—ENR 4/26.

Minn., Minneapolis—HEATING PLANT—Cornelius Co., 1621 Hennepin Ave., 1 and 2 story, part bsmnt., 200x240 ft., rein.-con. brick steam heating plant, to Pearson Bros., c/o S. G. Pearson, 2202 Bryant Ave. S. Est. **$100,000-$300,000.** Lang & Raugland, 502 Wesley Temple Bldg., archts.

★**N. J., Jersey City**—PLANT—Ben Grunstein & Son, 502 Observer Highway, Hoboken, packing plant, to Bonanno Constr. Co. Inc., 415-32 St., Union City, **$500,000.** Ballinger Co., 105 S. 12 St., Phila., Pa., archts.

O., Marion—FACTORY—Huber Mfg. Co., 202 N. Greenwood St., 1 story, 130x400 ft., brick, steel factory addn. to G. P. Dysart, 249 Overbrook Dr., Columbus, **$99,329.**

Okla., Wynnewood—REFINERY—Kerlyn Oil Co., 1st National Bank Bldg., Oklahoma City, imprv.., expanding capacity refinery plant, force account. Approx. **$125,000.** CD 2/16—ENR 2/22.

Ore., Eugene — PLANT — International Crossarm Co., c/o Rainier Crossarm Co., H. B. Pearne, genl. mgr. Chehalis, Wash., 200x400 ft. resaw plant, 3 dry kilns, cresoting plant, warehouse and office bldg., to A. D. Ford & Son, 417 S. E. Clay St., Portland, and W. F. Ramsey, Eugene. Est. **$100,000**

Ore., Van Horn—WAREHOUSE—E. R. Pooley, New Bldg., Hood River, 120x160 ft., tile, concrete pear and apple cold storage warehouse, to Donald M. Drake Co., Lewis Bldg., Portland, est. **$81,000.** F. H. Fassett, Miller Bldg., Yakima, Wash., archts.

Pa., Harmarville — LABORATORY — Gulf Research & Development Co., E. R. Gibson, supt. constr., Gulf Bldg., Pittsburgh, 1 story, bsmnt., 35 x 53 ft., furnace oil test laboratory, steel, concrete block, to G. Seaman, 6388 Pennsylvania Ave., Pittsburgh. Est. **$60,000.** CD 4/3—ENR 4/5.

Pa., Ivy Rock (P. O. Conshohocken)—STEEL SOAKING PITS—Alan Wood Steel Co., Ivy Rock, (P. O. Conshohocken), steel soaking pits, to Amsler-Morton Div. Union Industries Inc., Fulton Bldg., Pittsburgh. **$200,000.** Awarded 4/24.

Pa., Morton — PLANT — Lansdowne Steel & Iron Co., Morton, exten. shell shop, to Work & Co., 1700 Sansom St., Phila. **$165,000** incl. equip. Awarded 4/24. CD 2/27—ENR 3/1.

Pa., Phila—LABORATORY—Midvale Co., 4320 Wissahickon Ave., X-ray laboratory, to Murphy-Quigley & Co., 1518 Sansom St., **$50,000.** Awarded 4/20. CD 4/11.—ENR 4/19.

Pa., Phila.—PLANT—Westbrook Publishing Co., 5800 N. Marvine St., publishing plant addns., to Jack S. Steele Co., 1316 Arch St., **$40,000.** Awarded 4/20.

Tex., Alamo—PACKING PLANT—Burkhart Fruit & Vegetable Co., 504 West St., 1 and 2 story, metal, frame, concrete packing plant, force account. **$40,000.**

Tex., Houston — PLANT — Gregory-Robinson-Speas, Paris, 90x125 ft., vinegar plant, steel frame, to Brown Constr. Co., 4102 Montrose Blvd., approx. **$48,000.** CD 5/2.

Tex., Houston—WAREHOUSE—Lockwood Wholesale Realty Co., 600 Lockwood St., 128x192 ft., masonry warehouse unit, to American Constr. Co., Rusk Bldg., approx. **$100,000.**

Tex., Mercedes—PLANT—Saladino Box & Crate Co., Mercedes, rebuilding crate mfg. plant, own forces. **$40,000.** CD 3/1—ENR 3/8.

Wis., Milwaukee—FACTORY—Badger Die Casting Co., 1570 S. 1 St., Zone 4, 1 story, part bsmnt., 100x120 ft., concrete block, brick, factory addn., concrete fdn., to Meredith Bros. Inc., 121 E. Washington St., Zone 4. Est. **$54,000.** CD 5/2.

N. B., Bathurst—GARAGE, etc.—Lounsbury Co., Ltd., Moncton and Bathurst, exten. garage and showrooms, etc., to M. R. Toger, Newcastle, about **$50,000.** CD 2/16—ENR 3/1.

Ont., Arnprior — MILL — Kenwood Mills, Ltd., William St., 2 story, 50x180 ft. mill addn., to M. Sullivan & Son, Ltd., Arnprior, **$85,000.** Burgess & Gardner, 25 Bellwood Ave., Ottawa, archts.

Ont., Barrie—FACTORY—Canadian General Electric Co., Ltd., 212 King St. W., Toronto, 1 and 2 story, 150x300 ft. irregular shaped, factory and office, to Foundation Co. of Ontario, Ltd., 1158 Bay St., Toronto, **$296,000.** Beck & Eadie, 220 Bloor St. W., Toronto, archts. W. J. Armstrong, 989 Bay St., Toronto, engr. CD 4/13—ENR 4/19.

Ont., Galt—PLANT—Newlands & Co. Ltd., 31 Ainsley St. S., 1 story, 100x200 ft., brick plant exten., to Shultz Const., Ltd., 45 Albion St., Branford, about **$183,600.** CD 4/19—ENR 4/26.

Ont., Owen Sound — BUS TERMINAL — Western Ont. Motorways, Ltd., 217 10 St. E., two bldg. bus terminal, 1032 2 Ave., to M. Nicol, 361 10 St. W., about **$50,000.** CD 2/26.

Ont., Sarnia—BOILER HOUSE—Electric Auto Lite Ltd., 35 Christina St., 20x38 ft. boiler house addn., 24 ft. high, to R. W. McKay, 400 N. Front St. Est. **$40,000.** CD 4/4—ENR 4/19.

Ont., Toronto—PLANT—Parisian Laundry Co. of Toronto, Ltd., 241 Bathhurst St., new bldg. and plant addn., to W. B. Sullivan Const. Ltd., 30 Bloor St. W., about **$95,000.** Mathers & Holdenby, 96 Bloor St. W., archts.

Que., Bout d'l Isle (Montreal Postal Dist.)—RAILWAY STATION—Canadian National Rys., H. A. Dixon, ch. engr., 360 McGill St., Montreal, 21 x 57 ft., bsmnt., brick, railway station, concrete fdn., to Atlas Constr. Co., Ltd., 679 Belmont St., Montreal, **$45,000.**

Que., Gatineau—PLANT—Canadian International Paper Co., Ltd., Sun Life Bldg., Montreal, paper mfg. plant alterations, imprvs., own forces. About **$85,000.**

Que., Granby—PLANT—Norris Brothers, Granby, pasteurization plant, to E. Delorme & Son, 58 S. St. Antoine St. Est. **$40,000.** CD 5/3.

Que., Lachine (Montreal) — PLANT — British Rubber Co. of Canada, Ltd., 1057 Mountain St., Montreal, canvas shoe plant, to Harold S. Kerr, Ltd., 1410 Guy St., Montreal, about **$50,000.** CD 3/26.

Que., Temagami—REPAIR SHOP, etc.—Temagamie Navigation, Ltd., A. Freeman, secy., North Bay, Ont., group 5 bldgs., incl. boat repair shop, ice house, office and restaurant bldg., 2 boat and car storage shops, freight shed and auxiliary freight shed, to Hill-Clark-Francis Ltd., Whitewood Ave., New Liskeard, Ont., about **$40,000.**

UNCLASSIFIED

PROPOSED WORK

Calif., Los Angeles—TOWER, etc.—City Dpt. Water & Power, 207 S. Bway., steel tower, 132,000 volt transmission line along 98 St. from Avalon Blvd. to Van Ness Ave. $189,338. S. B. Morris, 207 S. Bway., engr.

Calif., Richmond—SHIPYARD BLDG.—H. J. Kaiser Co., Latham Square Bldg., Oakland, soon lets contract two 1 story, 26 x 60 ft. crafts bldgs., Shipyard 3.

†**Colo., Denver**—TAXIWAYS—U. S. Eng., 909 17 St., Denver, concrete taxiways at Lowry Field. $70,000.

†**Conn., Avon**—SWIMMING POOL—U. S. Eng., 31 St. James Ave., Boston, Mass., making plans swimming pool, Olds Farms Convalescent Hospital. $50,000. Strickland & Strickland, 71 Newbury St., Boston, Mass., and A. Hutton Vignole, Avon, archts.

Conn., Middletown — POWER SERVICE IMPROVEMENTS—Connecticut Power Corp., 209 Court St., completed plans power service imprvs., shortening high tension line spans, removal telephone conductors on towers, eliminate from Middletown circuit 3 mi. of tower line, installing high tension switching station, storage facilities. $175,000.

†**Del., Dover**—HANGAR, etc.—U. S. Eng., 120 Wall St., New York 5, N. Y., bids soon hangar, resurfacing, paving, etc., addnl. facilities, $112,000.

★†**Fla., Eglin Field (br. Crestview)**—AIRFIELD IMPROVEMENTS—U. S. Eng., Grant St. west of Westwood St., Mobile, Ala., addnl. construction, incl. 225,000 sq. yd. parking apron, 8,000 ft. north south runway, 300 ft. wide, taxiways, hangar for operational purposes, crash truck shed, temporary facilities for pilot lobby and lunch counter, relocation, resurfacing roads and streets as necessary, installing night lighting facilities, clearing, grubbing, grading, etc. $5,000,000.

†**Fla., Pensacola**—AIR STATION BLDG.—Federal Works Agency, F St. between 18 and 19 Sts. N.W., Wash. 25, D. C., recreation bldg., for Navy men at Pensacola Naval Air Station, $37,000.

Ind., Terre Haute—AIRPORT—City, remodeling airport, incl. depot, runways, etc. $35,000 or more.

Louisiana — EXPLORATORY WELL WORK—Texas Co., 919 St. Charles St., New Orleans, installation drilling and boiler barges, safety line, timber walkway, pipeline and appurtenant structures for drilling exploratory well for oil production in Atchafalaya Bay, south shore about 26.5 mi. southerly from Patterson, in Terrebonne Parish, located within area 330 ft. wide, 1,500 ft. long.

La., Cameron—PLATFORMS—The Continental Oil Co., Oil & Gas Bldg., Houston, Tex., installation, maintenance timber, timber pile platforms, clusters of piles and appurtenant structures for use in drilling exploratory well for oil production in Calcasieu Lake, near here.

†**La., Leesville**—ELECTRIC SYSTEM—U. S. Eng., 606 Santa Fe. Bldg., Galveston, Tex., electric sys. for Camp Polk zone. $46,700.

†**Md., Aberdeen**—FIRING TEST FACILITIES—U. S. Eng., First and Douglas Sts. N.W., Wash 25, D. C., firing test facilities. $135,000.

Mass., Cambridge—WAR MEMORIAL—City, City Manager, City Hall, plans completed concrete, stone, glass war memorial Honor Roll Plaque. $25,000. Lawrence B. Anderson Assoc., 12 Norfolk St., and Marcel Breuer, 1430 Massachusetts Ave., Zone 38, archts.

Mich., Monroe—PARKING AREA, etc.—Reed M. Dunbar, Resig Bldg., soon lets contract constructing parking area and drives, removal and disposal 2,800 sq. yd. driveway, $50 lin. ft. curb, grading, placing 4 catch basins, 5,950 sq. yd. concrete on stone paving etc. N. Macomb St. for Bd. Trustees Mercy Hospital. Plans deposit $3. A. Marino, Long Bldg., engr.

Minnesota — SERVICE EXTENSIONS — North Itasca Electric Cooperative, Bigfork, service extens., Itasca Co. $100,000.

N. C., Hickory—AIRPORT—City, W. Lyerly, mayor, City Hall, airport expan., imprvs., incl. 5,000 ft. runway and lengthening present runway from 4,000 to 5,000 ft. W. C. Olsen, 5 Exchange Pl., Raleigh, engr.

N. C., Jacksonville — BROADCASTING STATION — Jacksonville Broadcasting Co., Jacksonville, L. N. and E. H. Howard, Jacksonville, owners. 250 watt standard broadcasting station.

UNCLASSIFIED (Proposed Work, Cont'd.)

★**Ohio**—PIPELINE—Sinclair Refining Co., 135 S. La Salle St., Chicago, Ill., 8 in. petroleum pipeline from Toledo terminal to Columbus and Steubenville. Est. $4,000,000.

†**Okla., Ardmore**—SONIC BOMB SCORING PROJECTS—U. S. Eng., 231 W. Main St., Denison, Tex., sonic bomb scoring projects. Ser. 34-066-45-39. Over $25,000.

Texas—RURAL ELECTRIC LINE EXTENSION—North Plains Electric Coop., Perryton, bids soon rural electric line extens., Ochiltree Co. $50,000 REA allotted.

†**Tex., Bastrop** — ELECTRIC SYSTEM — U. S. Eng., 606 Santa Fe Bldg., Galveston, electric sys. for Camp Swift. $34,000.

†**Tex., Fort Sam Houston** — ELECTRIC LIGHTING SYSTEM—U. S. Eng., Fort Sam Houston, electric lighting sys., Ser. No. W-41-154-45-130. $25,000.

†**Tex., Fort Worth** — RUNWAY — U. S. Eng., 231 W. Main St., Denison, 8,200 ft. runway for Convar's Plant and Army Airfield. $150,000.

†**Tex., Harlingen**—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 25 St. and Avenue F, Galveston, electrical distr. sys. (both overhead and underground) at Laguna Madre Sub. Base, Ser. No. W-41-243-eng-45-M1-16. Over $50,000.

Tex., Houston—ELECTRIC LIGHTING SYSTEM—Rheem Mfg. Co., M & M Bldg., electric lighting sys., also power sys. with substations, transformers. Over $50,000. R. W. Foster, c/o owner, ch. engr.

Tex., Longview — AIRPORT — Gregg Co., c/o M. H. Gibson, judge, rejected bids May 2, airport administration bldg., control tower, will readvertise. Flint & Broad, Burt Bldg., Dallas, archts. CD 4/24.

★**Washington**—TRANSMISSION LINES—Bonneville Power Admin., P.O. Box 3537, Portland, Ore., transmission lines between Grand Coulee-Columbia, $1,925,000; Columbia-Snohomish, $860,000; Chehalis-Olympia, $431,800; Olympia-Shelton, $302,000; Shelton-Allyn, $227,700; Shelton-Potlatch, $166,700; Potlatch-Fairmont, $761,000; Midway-Grandview, $222,000; Colfax-Trentwood, $613,000; Spokane-Colville, $764,200; Colville-Aladdin, $197,000; Columbia-Ellensburg, $422,000.

Washington—POWER LINE—Clallam Co. Public Utility Dist. 1, Port Angeles, power line from Port Angeles to Forks, $150,000. H. Gray, Henry Bldg., 4 and Union St., Seattle, Zone 1, engr.

†**Wash., Hoquiam** — AIRFIELD PAVEMENT—Civil Aeronautics Admin., Smith Tower Annex, 2 and Yesler Sts., Seattle, Zone 4, received no bids Apr. 27, repair pavement at Moon Island Airfield. $18,000.

Alta., Calgary—GAS PIPELINE—Madison Gas Co., Ltd., Calgary, pipeline gathering gas from various sources in Turner Valley and piping to wholesalers in valley. Over $150,000.

Alta., East Calgary (Postal Dist. Calgary)—PIPELINE, etc.—B. A. Oil Co., Ltd., D. L. Campbell, supt., East Calgary, pipeline and storage tanks, etc. $50,000.

Alta., Vermilion — SWIMMING POOL — Municipality, J. J. Part, clk., swimming pool, $25,000.

Man., Winnipeg—DAMS—Ducks Unlimited Canada, Commerce Bank Bldg., several dams. $50,000.

N. B., Andover—FAIR GROUNDS, etc.—Victoria Park Ltd., c/o D. A. T. MacIntosh, Andover, purchased 26 acre site on Tatlock Flat for fair grounds, race track, baseball field, building, etc. $50,000.

Ont., Atikokan—LAND DEVELOPMENT—Rawn Iron Mines Ltd., 1701 Victory Bldg., Toronto, developing claims adjoining property of Steep Rock Iron Mines, Ltd. $100,000. Initial finances provided. T. Rawn, Atikokan, engr.

Ont., Chatham—WELL DRILLING—Raydis Oil & Gas Co. Ltd., c/o D. T. Kee, K. C., Chatham, drilling gas and petroleum wells. $50,000.

Ont., Komoka—TRACK RECONSTRUCTION, etc.—Canadian Natl. Rys., H. A. Dixon, ch. engr. (oper.), 360 McGill St., Montreal, Que., track reconstruction, other imprvs. $150,000.

Ont., New Toronto (Postal District, Toronto) — SWIMMING POOL — Municipality, swimming pool, 3 tank units, $100,000. W. B. Redfern, Town Hall, engr.

Ont., North Bay—RINK—North Bay Rink & Auditorium Co., c/o W. Little, chn., North Bay, plans rink imprvs. and artificial ice mfg. plant. $40,000.

Ont., Westport—ARENA—Municipality, H. Roberts, secy., Town Hall, concrete, steel arena. $50,000.

Que., Dolbeau—SWIMMING POOL—Municipality, D. Lefebvre, clk., swimming pool, other recreational facilities, $25,000.

Que., Quebec City—CAMP, etc.—Province of Quebec, Quebec City, camp in National Park, $25,000; storage for pisciculture purposes, $25,000. Dpt. Game, Quebec City, engr.

Sask., Kamsack—GAS WELLS—Coal Gate Oils Ltd., c/o L. V. Reaman, secy., Kamsack, developing gas wells. $50,000.

Sask., Saskatoon—GOLF COURSE—Municipality, 18 hole golf course on site of Wellington Park. Over $25,000. Parks Bd., City Hall, engr. CD 12/4—ENR 12/14.

BIDS ASKED

Bids Asked May 14

†**Md., Patuxent River (br. Wash., D. C.)**—AIR STATION BLDG.—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., supply and storage facilities, Naval Air Station, NOY 11722. CD 2/21.

†**Md., Priests Point** — TAXIWAYS, etc.—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., taxiway and parking, NOY 11987.

Ont., Fort William—TURNTABLE CIRCLE WALL—A. J. Hawkins, supt. Canadian Pacific R.R., J. E. Armstrong, ch. engr., Windsor Station, Montreal, Que., turntable circle wall. About $45,000.

Bids Asked May 21

N. S., Halifax—SHED—F. N. Riddell, ex. secy. National Harbours Bd., West Block, Ottawa, Ont., reconstructing Shed 21, Interior, Halifax Harbor. About $100,000. Plans deposit $25.

Bids Asked May 31

★†**O., Dayton**—TEST FACILITIES—U. S. Eng., P. O. 1234, 522 U. S. Post Office and Courthouse Bldg., Cincinnati, Zone 1, test facilities at Wright Field. $1,000,000.

Bids Asked About June 2

La., Denham Springs—GAS SYSTEM—Town, natural gas sys. $70,000. Barnard & Burk, Triad Bldg., Baton Rouge, engr.

Bids Asked

★**Missouri and Illinois**—OIL PIPELINE—Texas Empire Pipe Line Co., Philtower Bldg., Tulsa, Okla., 164 mi. 12 in. crude-oil pipeline in 9 loops between Sheldon, Mo., and Heyworth, Ill., incl. moving several pump. units, along whole line. $3,434,271. CD 4/23—ENR 4/26.

†**Tex., Odessa**—PIPELINE—United Carbon Co., Odessa, pipeline carrier for serving Carbon Black plant. $158,621. Defense Plant Corp. will finance. CD 4/6—ENR 4/12.

LOW BIDDERS

†**Calif., Hamilton Field**—GASOLINE PIPELINE—U. S. Eng., 74 New Montgomery St., San Francisco, Zone 19, May 3, gasoline pipe line, Job No. 2012, from Macco Constr. Co., Freight and Ferry Sts., Oakland, **$99,192.**

†**Colo., Pueblo**—BARRICADES—U. S. Eng., 909 17 St., Denver, May 2, barricades for ammunition storage at Pueblo Ordnance Depot, from Peter Kiewit Sons Co., Box 4149 (So. Denver Sta.), Denver, **$334,675.**

Idaho — POWER LINES — North Idaho Rural Elect. Rehabilitation Assn., Sandpoint, Apr. 27, 25 mi. power lines, Boundary Co., REA project, Idaho 2004 Fl, from L. J. Peterson, Sandpoint, **$26,772.** Est. $25,000. H. A. Sewell, Newport, engr.

†**Neb., Sidney**—BARRICADES—U. S. Eng., 909 17 St., Denver, Colo., May 2, barricades for ammunition storage at Sioux Ordnance Depot, from Peter Kiewit Sons Co., Box 4149 (So. Denver Station), Denver Colo., **$430,531.**

N. Y., Idlewild—AIRPORT BLDG.—Dpt. Marine & Aviation, Pier A, North River, New York, Zone 4, May 2, administration bldg. at airport, from Del Balso Constr. Co. & Rusciano Co., 220 E. 42 St., New York, Zone 17. **$79,830.** CD 4/26.

★†**Ore., Hermiston**—OPEN STORAGE PADS—U. S. Eng., 628 Pittock Block, SW, 10 Ave. and Washington St., Portland, Zone 5, open storage pads with barricades, approaches at Umatilla Ordnance Depot, from J. H. Collins & Co., and R. L. Bair & Co., P. O. Box 678, Walla Walla, Wash., **$566,480.**

†**Tex., Fort Sam Houston** — RECREATIONAL FACILITIES—U. S. Eng., Fort Sam Houston, outdoor recreational facilities, for Brooke General and Convalescent Hospitals, Ser. No. W-41-154-45-126, from Colglazier & Hoff, Inc., 326 Sequin Rd., San Antonio, **$65,465.** CD 5/7.

†**Tex., Kelly Field**—AUTOMATIC SPRINKLER SYSTEM—U. S. Eng., Fort Sam Houston, installing automatic sprinkler sys. in 12 warehouses, Ser. W-41-154-45-117, from Raisler Sprinkler Div. Raisler Corp., 129 Amsterdam Ave., New York, N. Y., **$118,400.** CD 4/24—ENR 4/26.

†**Tex., Kelly Field**—AUTOMATIC SPRINKLER SYSTEM—U. S. Eng., Fort Sam Houston, Apr. 26, installing automatic sprinkler sys. in 6 warehouses, San Antonio Air Depot, Group B, (Ser. W-41-154-45-114), from Grinnell Co., 260 W. Exchange St., Providence, R. I. **$207,253.** CD 4/17—ENR 4/19.

†**Tex., Van Horn**—AIRPORT SEEDING, etc.—Civil Aeronautics Admin., Box 1689, Fort Worth, Apr. 28, seeding, mulching at airport, Prop. 4-45-5006, from Vilbig Constr. Co., 817 Bourbon St., Dallas, **$47,870.** CD 4/12—ENR 4/19.

CONTRACTS AWARDED

†**Ala., Anniston** — SPRINKLER ALARM SYSTEM—U. S. Eng., Grant St. west of Westwood St., Mobile, Zone 7, sprinkler alarm sys. modification, addns., at Anniston Ordnance Depot, to American District Telegraph Co., Protective Life Bldg., Birmingham. **$43,576.**

†**Ariz., Litchfield Park (br. Phoenix)**—GAS DISTRIBUTION SYSTEM—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., gas distr. sys., N.A.F., NOY 12083, to Associated Piping & Engr. Co., Inc., 2332 E. 38 St., Los Angeles 11, Calif. **$33,873.** Awarded 4/3.

★†**Calif., Stockton**—MARGINAL WHARF—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., exten. marginal wharf, Naval Supply Annex, Rough & Ready Island, Spec. 16170, NOY 11901, to MacDonald & Kahn, Inc., G. Pollock & Teichert & Son, Inc., 200 Financial Center Bldg., San Francisco. **$1,814,345.** CD 4/27, under LB.

†**Fla., Boca Raton**—GRASS STABILIZATION, etc.—U. S. Eng., Post Office Bldg., Savannah, Ga., grass stabilization for dust and soil erosion control at Boca Raton Airfield, to Malcolm Holding, Hollywood, **$27,500.** CD 4/17.

†**Md., Aberdeen Proving Grounds**—SHEDS—U. S. Eng., Standard Oil Bldg., Baltimore, steel sheds, to Ritter Bros., 1511 N. Cameron St., Harrisburg, Pa., **$52,915.** Awarded 4/26.

★†**Md., Patuxent River (br. Wash. D. C.)**—AIR STATION BARRACKS, etc.—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. 25, D. C., barracks, WAVES officers quarters and mess hall at Naval Air Station, NOY 10835, to Irons & Reynolds, Inc., 1701 H St. N.W., Wash., D. C., **$875,000.** CD 4/19, under LB.

†**Mo., Kansas City**—SPRINKLER SYSTEM, etc.—U. S. Eng., Davidson Bldg., 10 E. 17 St., Kansas City, Zone 8, sprinkler, underground supply and alarm sys., Kansas City Quartermaster Depot, Contr. 23-028-eng-793, to Walton-Viking Co., 2518 Holmes St., Kansas City, Mo., **$56,990.**

†**Neb., Sidney**—RAILROAD TRACKAGE—U. S. Eng., 909 17 St., Denver, Colo., railroad trackage at Sioux Ordnance Depot, to Wm. A. Smith Constr. Co., Citizens State Bank Bldg., Houston, Tex., **$27,818.**

†**N. Y., Utica**—RECREATIONAL FACILITIES—U. S. Eng., 120 Wall St., New York, Zone 5, outdoor recreational facilities, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., **$53,450.**

†**O., Cambridge**—SWIMMING POOL, etc.—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., outdoor swimming pool, filter plant, bath house, etc., Fletcher General Hospital, Contr. W-36-058-eng-1274, to The Guy Johnston Lumber & Supply Co., Steubenville, **$25,000.**

†**O., Cleveland**—SWIMMING POOL, etc.—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., outdoor swimming pool, filter plant, bath house, etc., Crile General Hospital, Contr. W-36-058-eng-1348, to The Loesch & Green Constr. Co., 4100 Brookpk St., **$25,000.**

†**O., Patterson Field (br. Fairfield)**—RUNWAY, LIGHTING, etc.—U. S. Eng., (P.O. Box 1234), 522 U. S. Post Office and Courthouse Bldg., Cincinnati, Zone 1, installing runway and approach lighting and taxiway lighting sys. complete, Contr. W-33-015-eng-913, to Harris-McBurney Co., Jackson, Mich., **$60,068.**

†**Okla., Fort Sill**—SWIMMING POOL—U. S. Eng., 231 W. Main St., Denison, Tex., rein.-con. training swimming pool, to Ditmar-Dickmann Constr. Co., 804 Barnes Bldg., Muskogee. **$75,000.** CD 5/25.

Oregon—POWER LINE—Benton-Lincoln Electric Cooperative, Corvallis, 49 mi. power line, Benton Co., to City Electric Co., Boise, Idaho, **$56,054.**

†**Pa., Chambersburg**—OPEN STORAGE AREA—U. S. Eng., Standard Oil Bldg., Baltimore 2, Md., open storage areas, Letterkenny Ordnance Works, Contr. W-18-020-eng-816, to Brown, Davis & White, Grantville, **$45,000;** Contr. W-18-020-eng-0814, to Walker Brothers, Chambersburg, **$105,000.**

R. I., Newport—BEACH IMPROVEMENTS—City, City Planning Dpt., Newport, rebuilding bathhouse, beach, Easton's Beach, to Tredennick-Billings Co., 10 High St., Boston, Mass. Est. **$75,000.** CD 4/6—ENR 4/12.

†**Tex., Amarillo and Wichita Falls**—SIGNALING AND ALARM SYSTEMS—U. S. Eng., 231 W. Main St., Denison, signaling and alarm sys., Serial 34-066-45-35, to Gable Electric Service Co., 6713 Snider Plaza, Dallas. **$28,000.** Est. over $50,000. CD 4/25.

Tex., Galveston — SHIPYARD BLDG.—Todd Shipbuilding Corp., Pelican Dike, Galveston, rein.-con., steel blacksmith shop, force account. **$40,000.** CD 11/15—ENR 11/23, under Industrial.

†**W. Va., Martinsburg**—SWIMMING POOL, etc.—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., outdoor swimming pool, filter plant, bath house, etc., Newton D. Baker Gen. Hospital, Contr. W-36-058-eng-1273, to A. Jay Cole, Crystal Falls, Mich., **$25,000.**

Proposal Advertisements see p. 19